

1866
N.L.
MICROFILMED
SUR MICROFILM

Well Information

Operator: **CHEVRON CANADA RESOURCES**

Well Name: **McKay Lakes O-80**

Location: **Unit O Section 80**

UWI: **300O806020123150**

Pool: **WILDCAT**

Field: **WILDCAT**

Province / State: **NWT**

Country: **CANADA**

NATIONAL ENERGY BOARD
ENGINEERING BRANCH
SEP - 8 1999

Elevations

Reference: _____ Ground: **292.32m**

Cut(-) / Fill(+): _____ Kelly Bushing: **299.6m**

K.B. to Ground: **7.27m** Casing Flange: _____ m

Total Depth

Measurement Type	Measured Depth	True Vertical Depth
Drillers TD (Tally)	1028m	1028m
Drillers TD (Strap or SLM)	1025.25m	1025.25m
Loggers TD	1028m	1028m

Surface Co - Ordinates

Well Type: **Straight**

Longitude: **123.25** N / S Co - Ordinates: _____

Latitude: **60.3** E / W Co - Ordinates: _____

Bottom Hole Co - Ordinates

Longitude: _____ N / S Co - Ordinates: _____

Latitude: _____ E / W Co - Ordinates: _____

Well Summary

Spud Date: **Aug 24, 1999 @ 11:15hrs**

TD Date: **Sep 4, 1999 @ 08:30hrs**

Rig Release Date: _____

Contractor: **AKITA DRILLING RIG 48**

Drilling Fluid Summary

Fluid Type	From	To
Light Gel Chem System	0m	363m
Gel Chem Polymer	363m	1028m

Casing Summary

Type	Hole Size	Casing Size	Landed
Surface	311mm	244mm	359.2m

Work Schedule

Contractor	Geologist	Log Interval	Dates Logged
Lillico Petroleum Consultants	Brock Lillico	75m - 1028m	Aug 24, 1999 - Sep 5, 1999
Lillico Petroleum Consultants	Cathy Lillico	75m - 1028m	Aug 24, 1999 - Sep 4, 1999

Remarks

Legend

Rock Types and Thin Beds

Whole Bed	Stringer	Nodule	Breccia	Clast	Pebble	Grain	Rock Type	Whole Bed	Stringer	Nodule	Breccia	Clast	Pebble	Grain	Rock Type
							Anhydrite - primary								Igneous - basic
							Anhydrite - secondary								Igneous - metamorphic
							Argillite								Limestone - grain supported
							Barite								Limestone - mud supported
							Bentonite								Manganese
							Breccia								Marlstone - calcareous
							Calcareous								Marlstone - dolomitic
							Cement								Phosphate
							Conglomerate - mixed								Pyrite
							Conglomerate - dark chert								Quartz
							Conglomerate - light chert								Salt
							Conglomerate - varicolored chert								Shale - black
							Chert - dark								Shale - medium gray
							Chert - fossiliferous								Shale - dark gray
							Chert - light								Shale - medium to dark gray
							Chert - tripolitic								Shale - dark colored
							Chert - varicolored								Shale - light to medium colored
							Claystone - colored								Shale - medium to dark colored
							Claystone - gray								Shale - medium colored
							Coal								Siderite
							Dolomite								Sandstone
							Ferruginous								Siltstone
							Feldspar								Till - glacial
							Gypsum								Volcanic (Tuff)
							Igneous - acidic								Welded Volcanic (Tuff)

Accessories

	Anhydritic		Cherty - tripolitic		Illitic		Salt casts
	Argillaceous		Cherty - varicolored		Kaolinitic		Sandy
	Baritic		Chloritic		Lithic Fragment		Sideritic
	Bentonitic		Clayey		Marly - calcareous		Siliceous
	Bituminous		Dolomitic		Marly - dolomitic		Silty
	Calcareous		Ferruginous staining		Micromicaceous		Slickenside
	Carbonaceous		Fractures		Mixed layer clayey		Stylolitic
	Cherty - dark		Glaucinitic		Montmorillonitic		Tuffaceous
	Cherty - fossiliferous		Gypsiferous		Phosphate pellets		Zeolitic
	Cherty - light		Gibbsitic		Pyritic		

Miscellaneous Grains

	Biotite		Mineral crystal		Orthoclase
	Glaucinite		Mineral - dark		Plagioclase
	Mica flakes		Muscovite		Sand grain

Matrix

	Argillaceous		Marl - dolomitic
	Bentonite		Micrite
	Bituminous		Mixed Clay
	Clay		Montmorillonite
	Chlorite		Sand
	Gibbsite		Silt
	Illite		Sperry Calcite
	Kaolinite		Zeolite
	Marl - calcareous		

Cement

	Anhydritic		Gypsiferous
	Baritic		Hematitic
	Bituminous		Limonitic
	Calcareous		Pyritic
	Chert - dark		Salt
	Chert - light		Sideritic
	Dolomitic		Siliceous
	Ferruginous		

Textures

C	Chalky	L	Lithographic
CX	Cryptocrystalline	mx	Microcrystalline
e	Earthy		

Core Track

	Indicates Cored Interval
	Indicates Lost Core

Test Track

	Indicates Tested Interval
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Fossils (Rock Builders)

	Aggregate grains		Coral - head		Oncolite
	Algae - laminations		Coral - colonial		Oolite
	Algae - non descript		Coral - solitary		Ostracod
	Algae - ootoid		Crinoid		Pelecypod
	Algae - skeletal		Diatom		Pellet
	Amphipora		Echnoid		Pisolite
	Belemnite		Echnoid - spine		Plant Remains
	Bioclastic		Fish Remains		Scaphopod
	Brachiopod		Euryamphipora		Spicule
	Bryozoa		Foraminifera		Sponge
	Calciphaera		Fossil		Stromatoporoid
	Cephalopod		Fragmental		Stromatoporoid - bulbous
	Chaetetes		Gastropod		Stromatoporoid - massive
	Coated grain		Graptolite		Stromatoporoid - tabular
	Conodont		Hydrozoa		Tentaculites
	Coral		Intraclast		Trilobite
	Coral - branching		Mollusc		

Porosity Type Track

	Earthy - low permeability - crystals / grains less than 1 / 16 mm
	Fenestral - voids from gas bubbles - shrinkage cracks - birdseye texture
	Fracture
	Intercrystalline - Interfragmental - Intergranular
	Interoolitic - Interpelletoidal
	Moldic
	Organic - Bridged - Intrafossil
	Pinpoint - voids less than 1/ 16 mm
	Vuggy - voids greater than 1 / 16 mm

Diagenesis Track

	Calcification - Calichified
	Dolomitization
	Diagenetically mottled
	Fracturing
	Leaching
	Metasomatism - Replacement - Allotropic recrystallization - Inversion - Transformation
	Pressure Deformation
	Recrystallization - Strain recrystallization - Grain growth
	Silicification
	Solution cavity filled - Geopetal structure
	Stylolitic
	Weathering

Degree of Diagenesis is in (%) percent. ? Indicates questionable interpretation.

Wentworth Grain / Crystal Size Scale Chart

Clastic Rocks Common Name	Crystalline Rocks Common Name	Lower Size Limit (mm)	Upper Size Limit (mm)	Size Grades Phi (Ø)
Clay	Cryptocrystalline	0.00098	0.004	+10 to +9
Very Fine Silt	Very Finely Microcrystalline	0.004	0.008	+8
Fine Silt	Finely Microcrystalline	0.008	0.016	+7
Medium Silt	Medium Microcrystalline	0.016	0.031	+6
Coarse Silt	Coarsely Microcrystalline	0.031	0.0625	+5
Very Fine Sand	Very Finely Crystalline	0.0625	0.125	+4
Fine Sand	Finely Crystalline	0.125	0.25	+3
Medium Sand	Medium Crystalline	0.25	0.5	+2
Coarse Sand	Coarsely Crystalline	0.5	1.0	+1
Very Coarse Sand	Finely Megacrystalline	1.0	2.0	0
Granules	Coarsely Megacrystalline	2.0	4.0	-1
Fine Pebbles		4.0	8.0	-2
Medium pebbles		8.0	16.0	-3
Coarse Pebbles		16.0	32.0	-4
Very Coarse pebbles		32.0	64.0	-5
Cobbles		64.0	256.0	-6 to -7
Boulders		256.0	infinity	-8 to -9

The size measure Phi is equal to the negative logarithm to the base 2 of the size in millimeters.

Thus 1 mm = 0 Phi and 1/2 mm = +1 Phi and 1/4 mm = +2 Phi etc.

Oil Show Track

	Even staining (75 - 100% of the rock is stained) - fluoresces in solvent
	Spotted staining (50 - 75% of the rock is stained) - fluoresces in solvent
	Spotted staining (25 - 50% of the rock is stained) - fluoresces in solvent
	Spotted staining (1 - 25% of the rock is stained) - fluoresces in solvent
	Questionable oil staining - No fluorescents in solvent
	Dead oil staining - asphaltic - bitumen - pyrobitumen etc.
	Fluoresces - no visible oil staining

Sorting Track

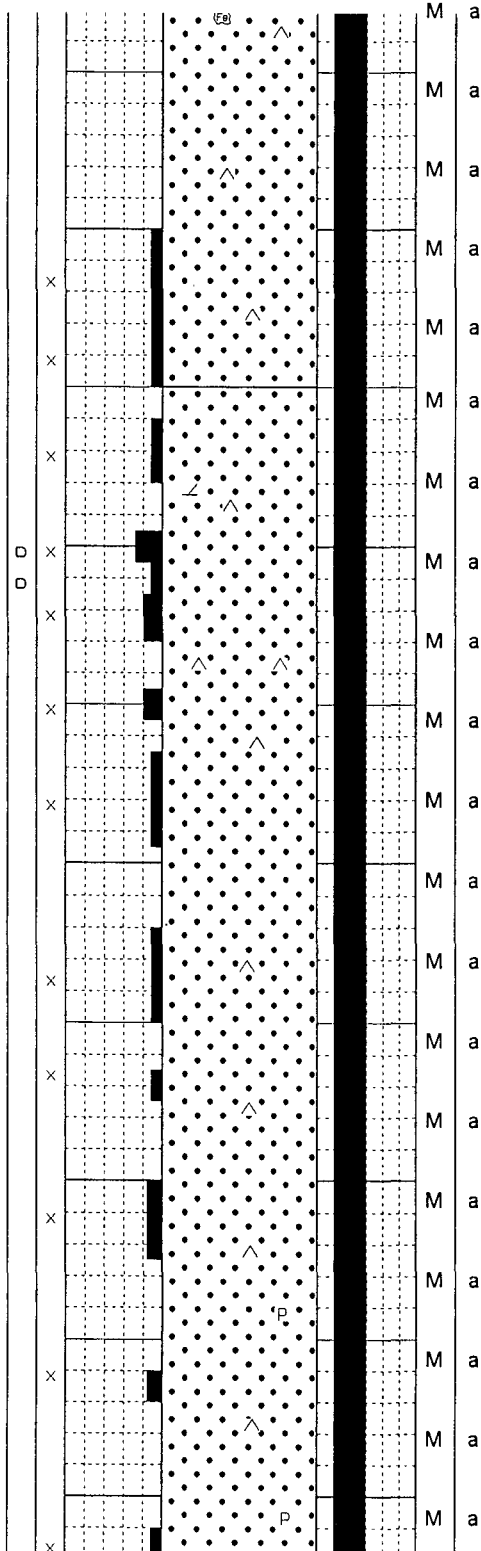
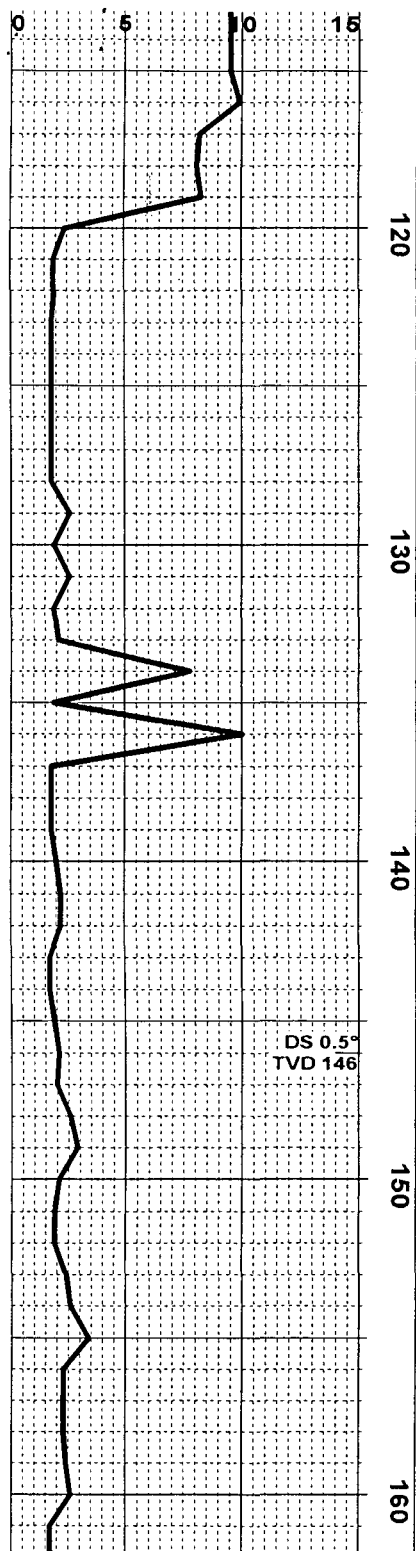
	Very poorly sorted - > 10 phi size grade classes
	Poorly sorted - 6-10 phi size grade classes
	Moderately sorted - 3-6 phi size grade classes
	Moderately well sorted - 2-3 phi size grade classes
	Well sorted - < 2 phi size grade classes

Rounding Track

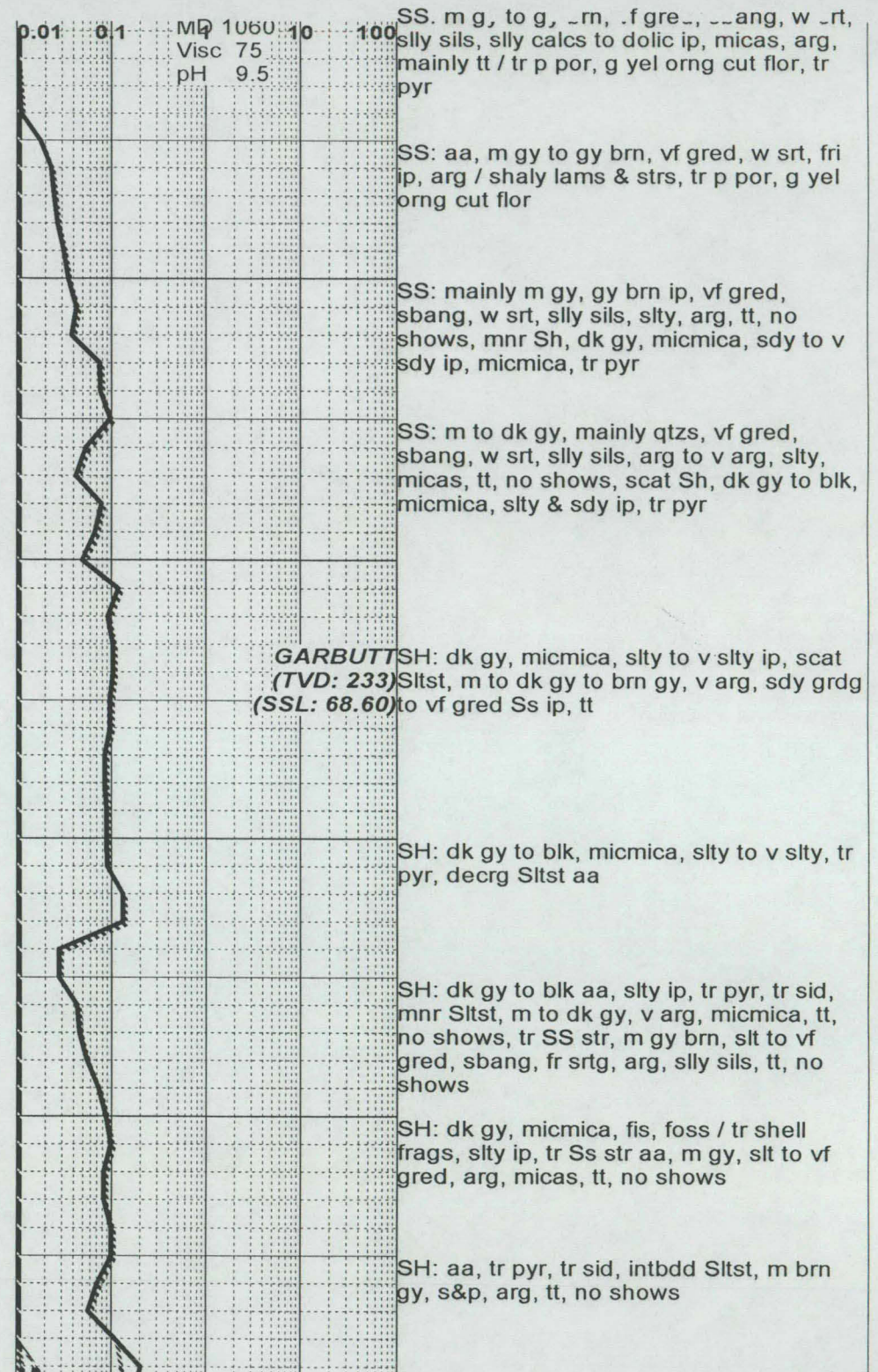
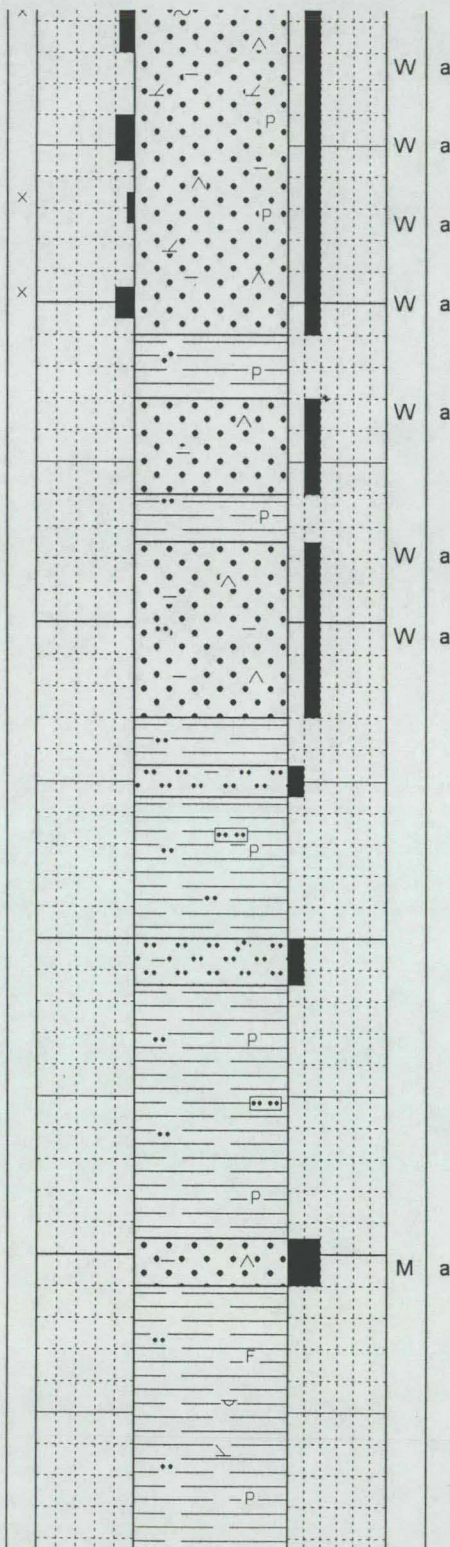
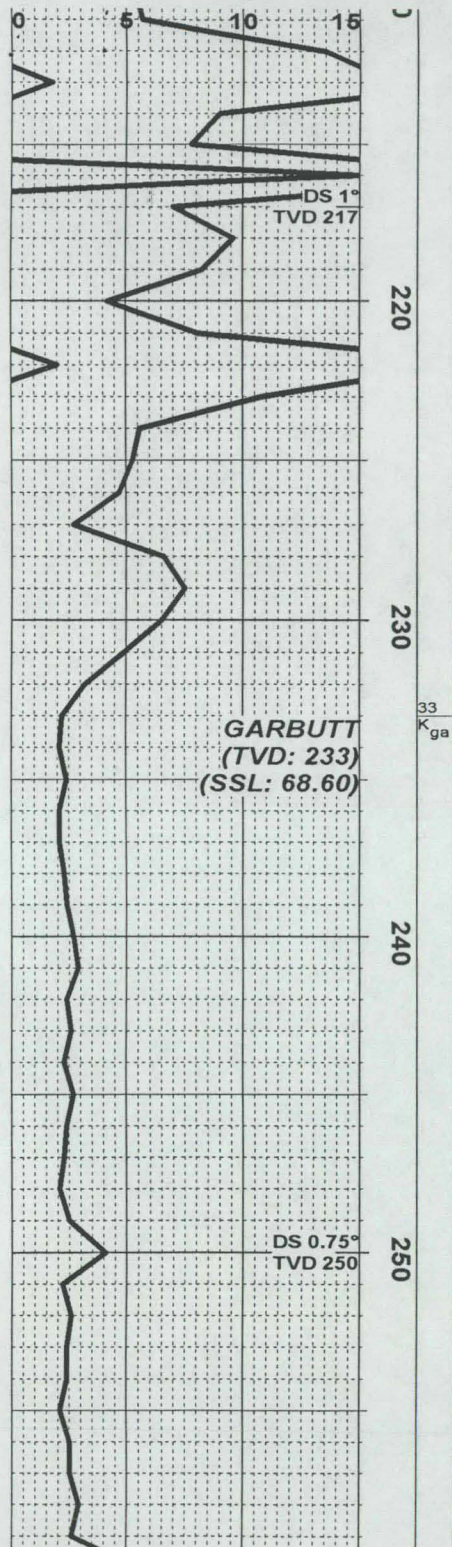
	Very Angular		Subrounded
	Angular		Rounded
	Subangular		Well Rounded

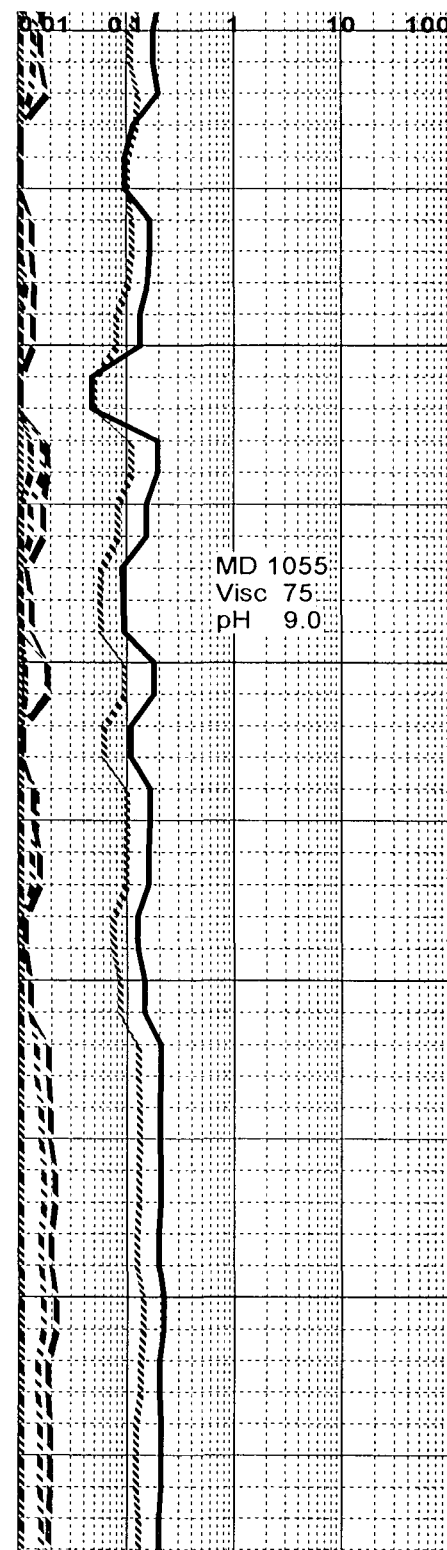
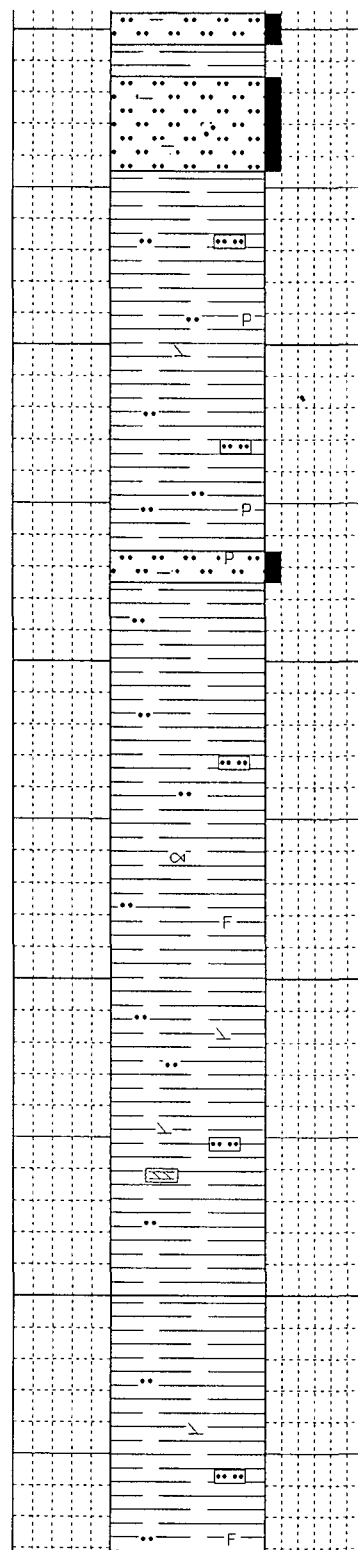
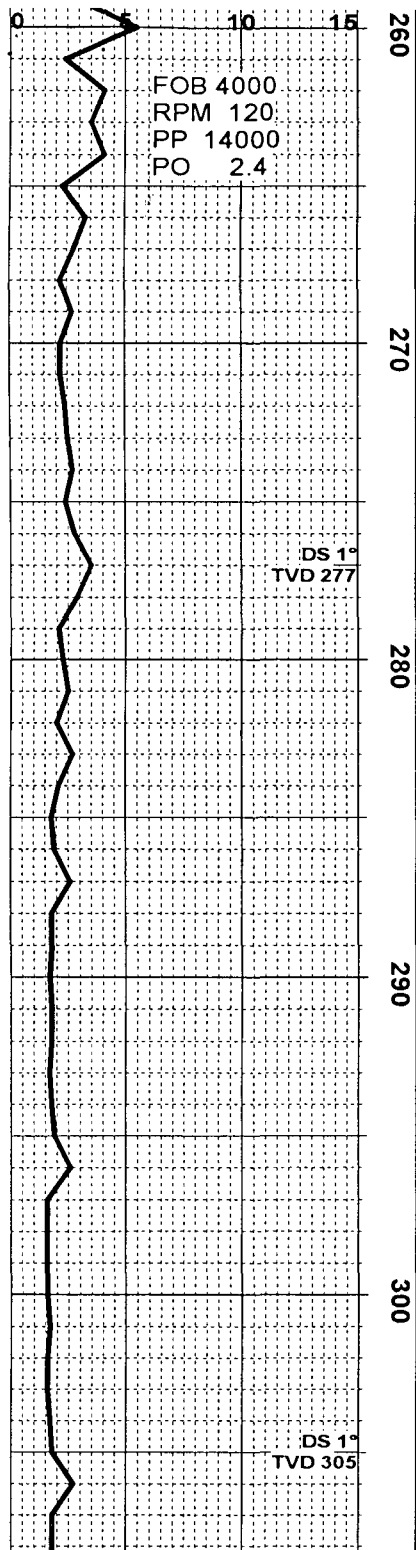
Framework Track

Framework is a ratio between clastic material greater than 1/16 mm and primary void filler less than 1/16 mm. ? indicates questionable interpretation



	pH	9.0	stng, tr p por, no shows, tr granitic boulder frags
			SS: wide variety of material in this sample including scat Ss, lt gy to yel gy to orng, vf to m gred, mainly tt, no shows, Cht & qtz pbls, pitted ip, granitic frags / mica, sloughing
			SD: lt brn to tan brn, red brn ip, qtzs to arkic, m to c gred, sbang to rdd, fr srtg, no cmt, uncons sd, indicated fr por, no shows, mn'r Ss, lt gy, vf to f gred, sbang, fr srtg, sils, p por, no shows
			SS: lt gy to lt yel gy, red brn ip, qtzs, vf to f gred, sbang, fr srtg, sils, slly dolc ip, tr p por, no shows, abnt loose m to vc sd grs, variety of frags like granite, syenite, dol, cht, & sltst, (uphole?)
			SS: lt gy to lt yel gy aa, vf to f gred, sbang, fr srtg, sils, p to fr por, no flor, tr pyrbt in rare part, abnt loose m to vc sd grs (uphole?)
			SS: aa, incrg loose c material to 90% of sample, m to vc qtz grs, some fld, tr cht, mn'r granite & syenite frags, (uphole caving?)
	MD 1060 Visc 53 pH 9.0		SS: aa, lt gy to lt tan gy, vf to f gred, tr p por, no shows, sample predly loose m to c qtz grs, tr igneous boulder frags, (uphole?)
			SS: lt gy to lt yel gy, qtzs, vf to f gred, sbang, fr srtg, sils ip, str's p por, no shows, abnt loose m to c qtz grs
			SS: aa, sample mainly m to c qtz grs, tr fld grs, tr granitic frags / mica (uphole cavings)
			SS: aa, lt gy to lt yel gy, qtzs, vf to f gred, sils ip, str's p por, no shows, abnt loose uncons m to c qtz grs, poor samples
			SS: aa, lt gy to lt yel gy, sils, tr pyric mt'x, mainly tt, no shows, sample is 95% m to c t ar u hole loughing





SLTST: m gy brn aa, s&p, arg, micmica, tt, no shows, tr pyr

SH: dk gy to blk, micmica, slty to v slty, tr pyr, tr sid, mnr Sltst aa

SH: aa, dk gy to blk, micmica, slty, tr Sltst str

SH: dk gy to blk, micmica, fis ip, slty to v slty ip, tr pyr, tr Sltst, m gy to m brn gy, arg, sdy ip, tt, no shows, scat uphole m to c gred uncon s d cavings

SH: dk gy to blk, micmica, slty ip, tr Sltst str

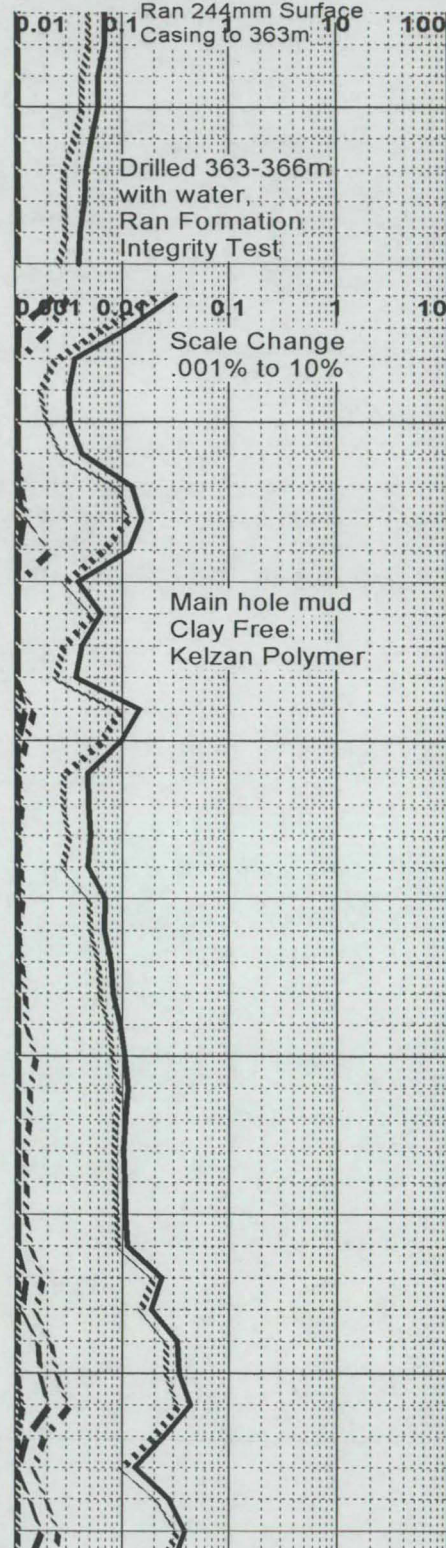
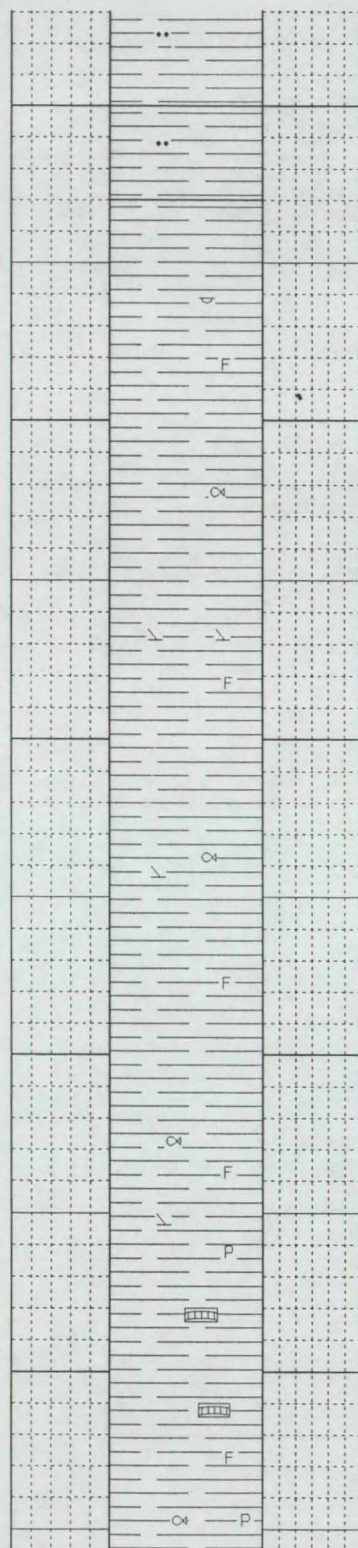
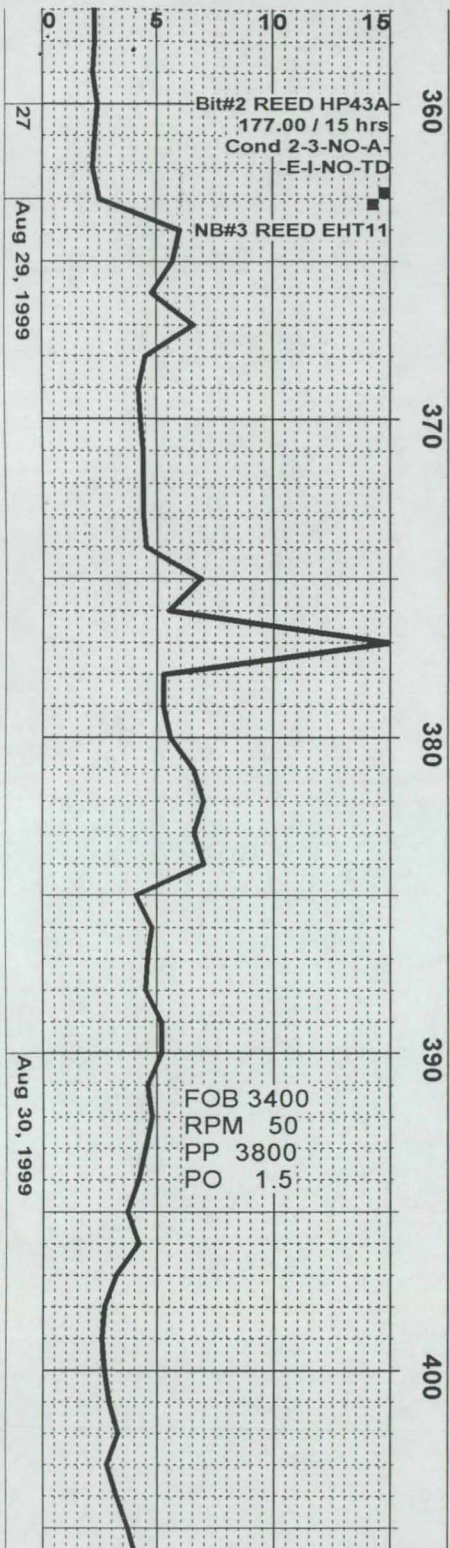
SH: v dk gy to blk, micmica, fis, slty ip, slly foss / tr fish scales

SH: m to dk gy, micmica, slty to v slty ip, slly sidic & blkly ip, tr Ironst strgs

SH: dk gy to blk, micmica, fis, slly slty ip / tr Sltst strgs

SH: dk gy aa, micmica, fis, slty ip, tr sid

SH: aa, micmica, fis, slly foss, tr shell frags, tr pyr, tr Sltst lams, tr Ironstone



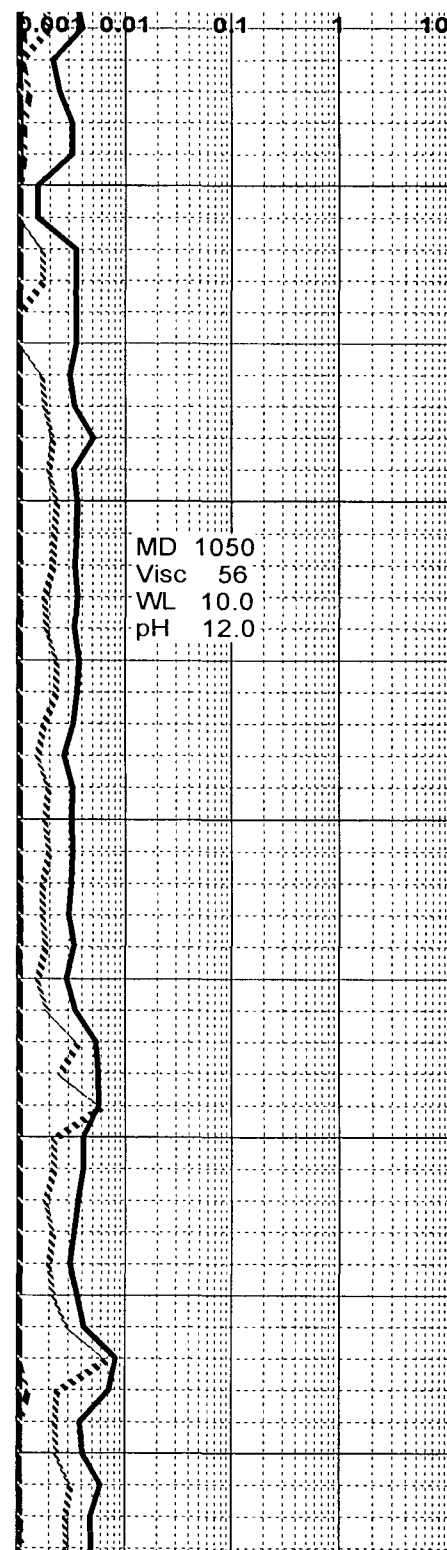
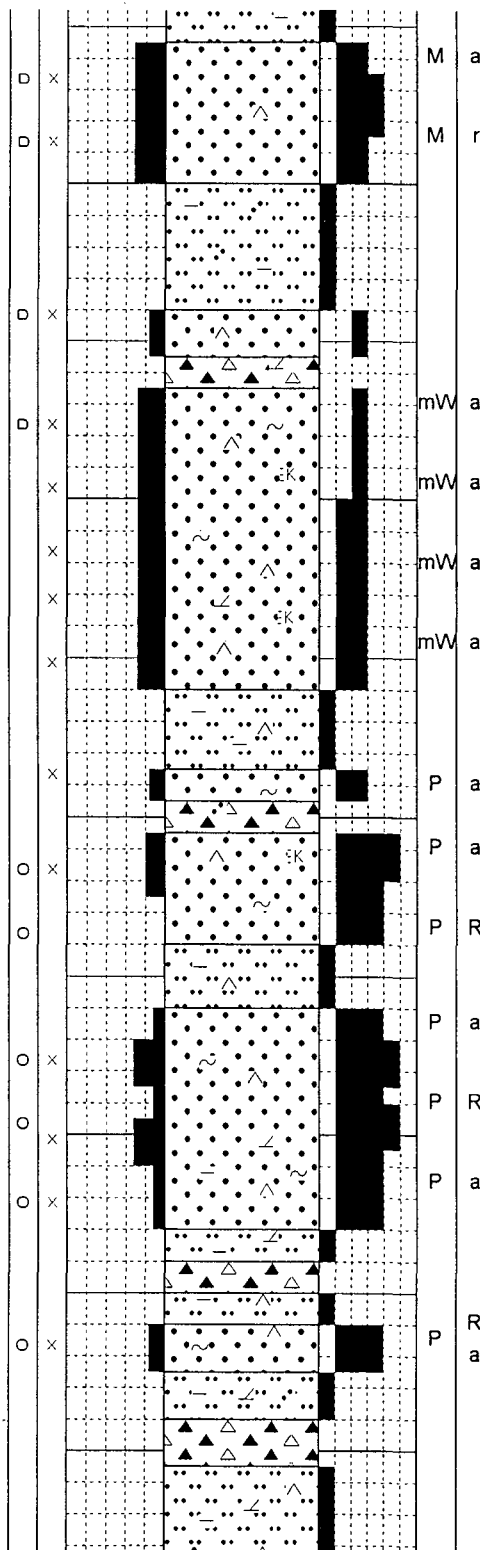
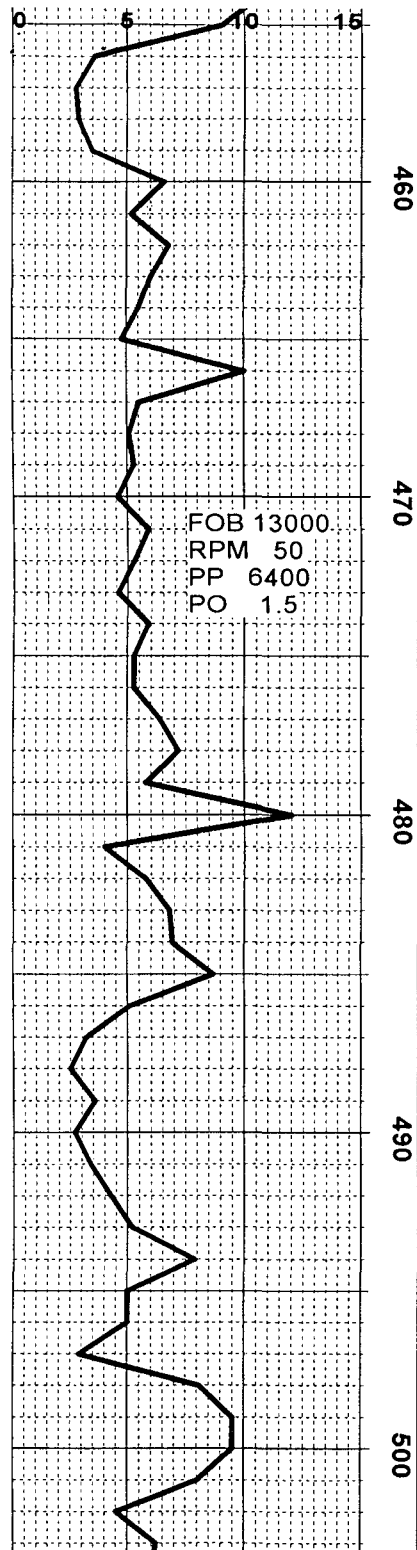
SH: dk gy, micmica, fis, slly foss, tr shell frags

SH: dk gy aa, micmica, fis, slly foss, tr fish rmnts, tr sid

SH: dk gy, micmica, fis, tr fish bones & scales, tr sid

SH: dk gy aa, micmica, fis, slly foss, tr pyr, tr sid, mnr Bent strgs, off wh, v soft, sdy & micas ip

SH: dk gy, micmica, fis, slly foss / tr fish rmnts, tr pyr, tr Bent strgs, off wh to lt gy, soft



SS: m gy to brn gy, qtzs, vf to f gred, tr m gred, sbang to sbrdd, fr srtg, sils, arg, fri / abnt loose disaggregated grs, indicated fr por, no shows, tr pyrbit, intbd Slstst, m gy, qtzs, v arg, micas, tt, no shows

SLTST: m gy, qtzs, arg to v arg, micmica, sdy, tt, no shows, scat Ss aa, vf to f gred, sils, rare tr carb incls, strs p por, no shows, tr SS, lt brn, qtzs, vf to f gred, highly sild grd to Cht, tt

SS: lt to m gy, qtzs, f gred, sbang, w srt, sils, sly kaolic / tr kao grs, tr glau, fri / scat loose disaggregated grs, p to fr por, no shows, tr pyrbit, tr Ss, m gy brn, qtzs, vf to f gred, sbang, fr srtg, v sils grd to sdy Cht, sly dolc, tt, no shows, hd

SS: m gy to m brn gy, qtzs, vf to f gred, sbang, fr srtg, sils ip, sly dolc ip, slty, sly kaolic, arg ip / tr Sh brks, mainly tt / strs p por, no shows

SLTST: m gy to gy brn, qtzs, sdy grd to vf gred Ss ip, sly dolc, sils, arg, micmica, tt, no shows, mnr Cht, m gy brn, sdy tex

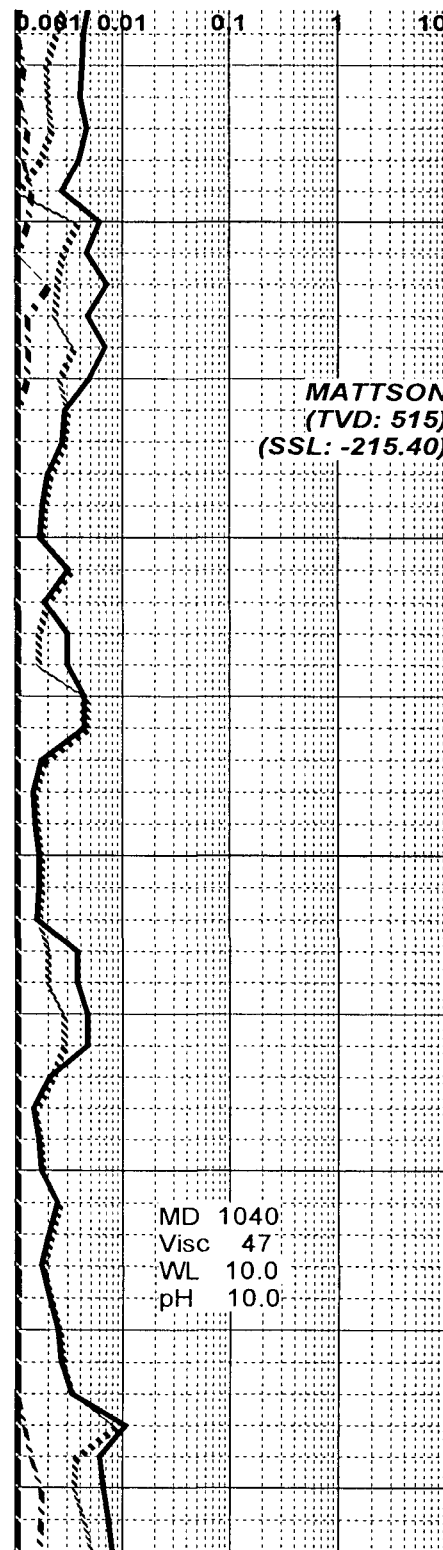
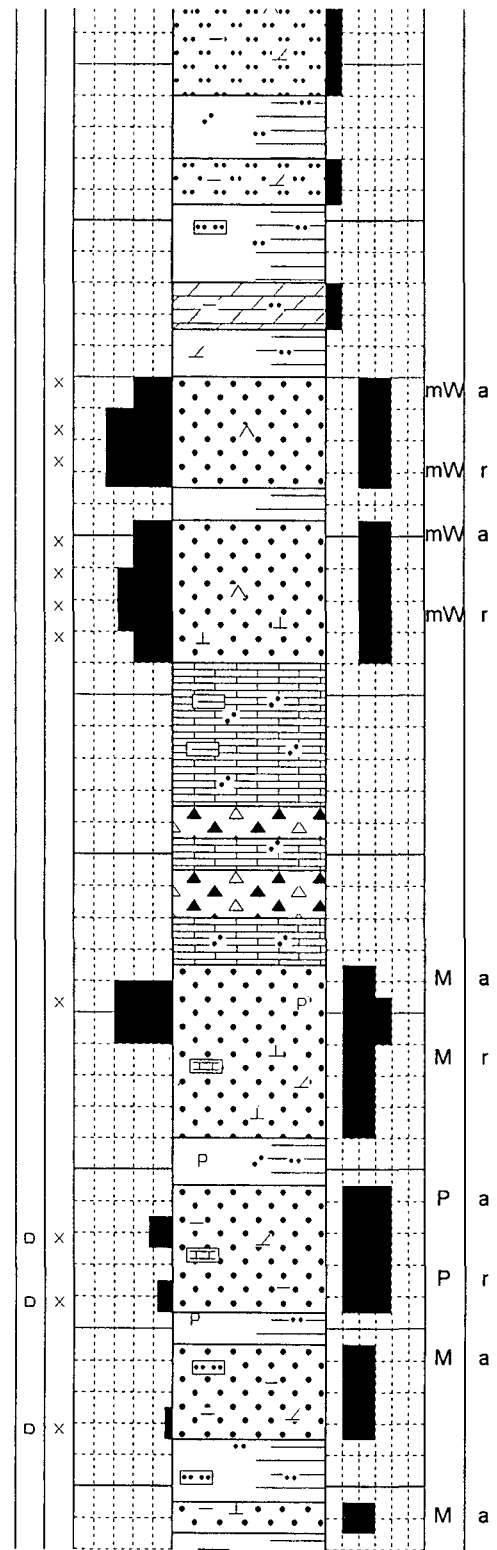
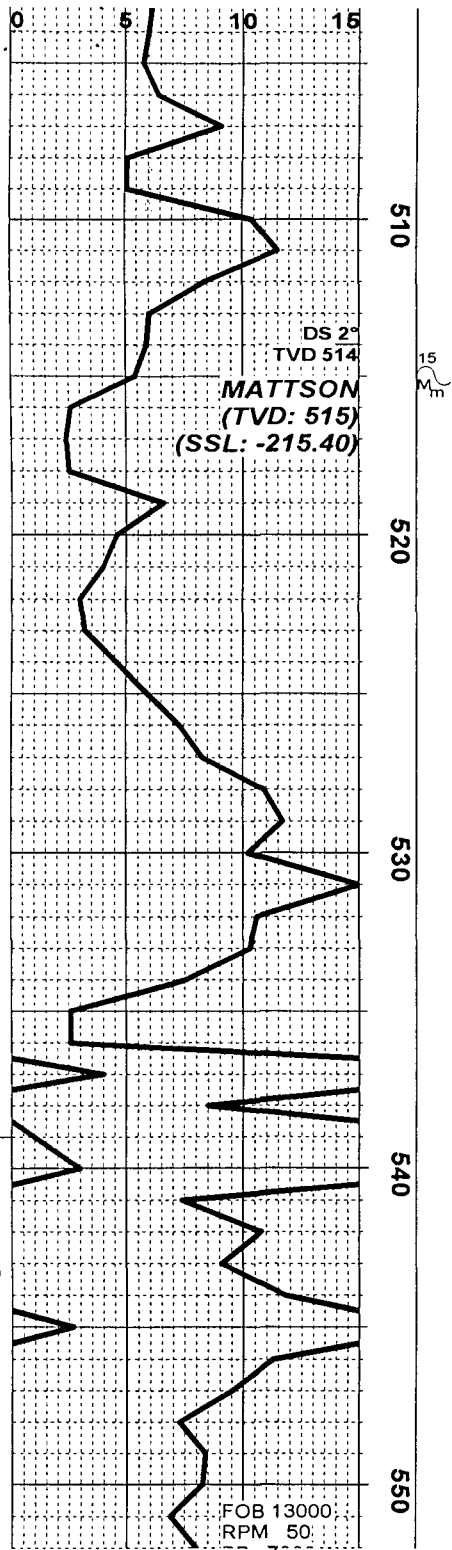
SS: m brn to gy brn, qtzs, glau, vf to m gred, tr c grs, sbang to rdd, p srtg, sils, sly kaolic / mnr kao grs, arg, strs p por, dead oil stng, fr yel orng cut flor, mnr Slstst aa

SS: m brn aa, vf to m gred / mnr c grs, sbang to rdd, p srtg, sils, glau, p to fr por, dead oil stng / fr orng cut flor

SS: aa, vf to f gred / scat m to c grs, sbang to rdd, p srtg, sils, sly dolc, arg ip, glau, mainly p por, strs fr por, patchy dead oil stng, fr orng cut flor, mnr Cht, lt to m gy, tan brn ip, sdy, pyric

SLTST: m gy, qtzs, dolc, sils, sdy, arg, micas, tt, no shows, mnr Ss aa, tr Cht

SLTST: aa, dolc, sils, arg, tt no shows, mnr Sh, dk brn gy, micmica, slty & sdy ip



SH: dk gy to dk brn gy aa, micmica, slty to v slty ip, sdy ip, scat Sltst, m to dk gy brn, qtzs, dolc, arg to v arg, tt, no shows, tr Ss, lt gy, cln, qtzs, vf to f gred, sbang, fr srtg, sils, tr p por, no shows

SH: m to dk gy brn, slty to v slty grdg to arg Sltst, dolc, scat Dol, dk gy brn, micxl, arg, slty & sdy, tt, no shows, mnr pyr, tr Ss aa

MATTSON
(TVD: 515)
(SSL: -215.40)
SS: v lt gy, qtzs, f to m gred, sbang to sbrdd, fr srtg, slly sils, cln, fri / scat loose disaggregated grs, g por, no shows

SS: v lt gy aa, cln, qtzs, f to m gred, calcs ip, fr to g por, no shows, scat Sh, m gy to gn gy, waxy, micmica, mnr Ls, lt to m gy brn, crpxl, sdy, slty, shaly strs, tt, no shows

LS: m gy to m brn gy, crpxl, sdy to v sdy grdg to calcs SS ip, slly arg, slty, tt, no shows, tr pyr, tr Cht

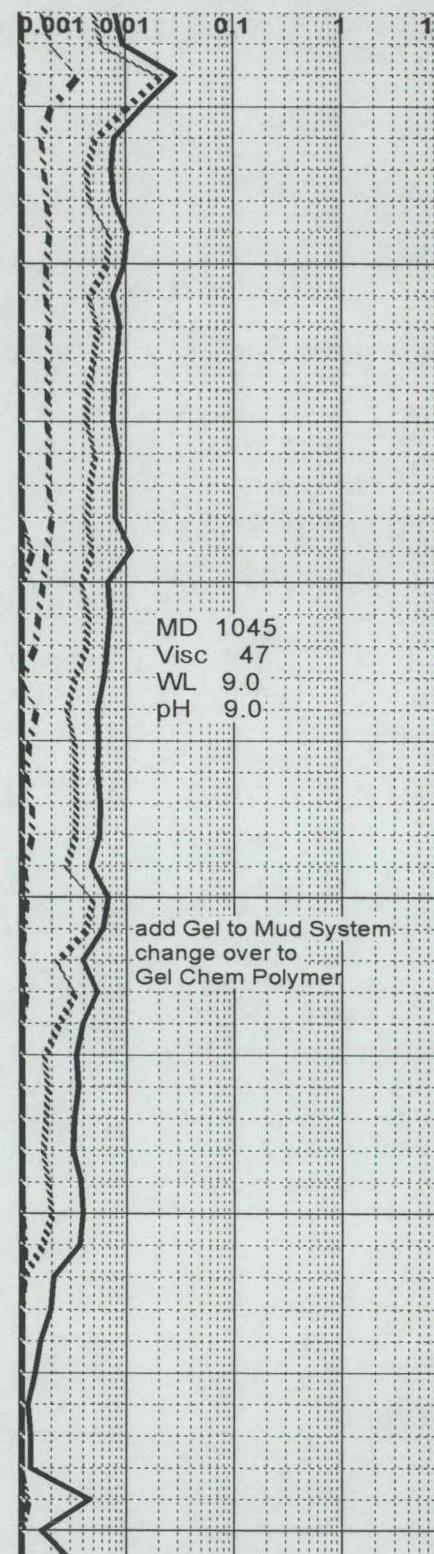
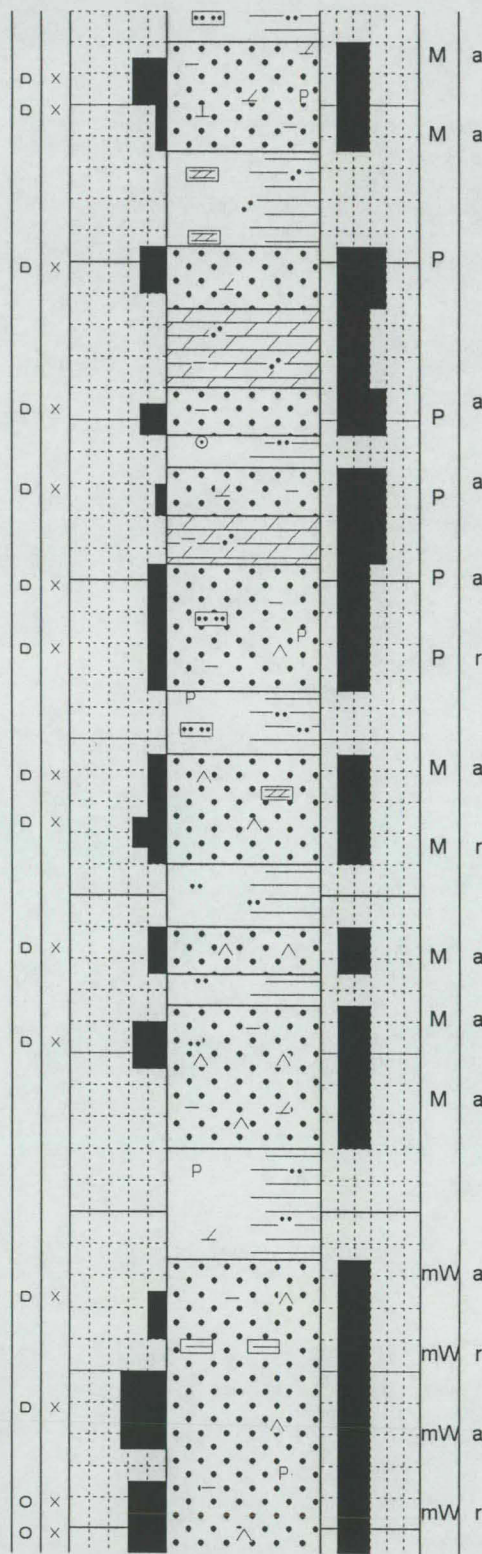
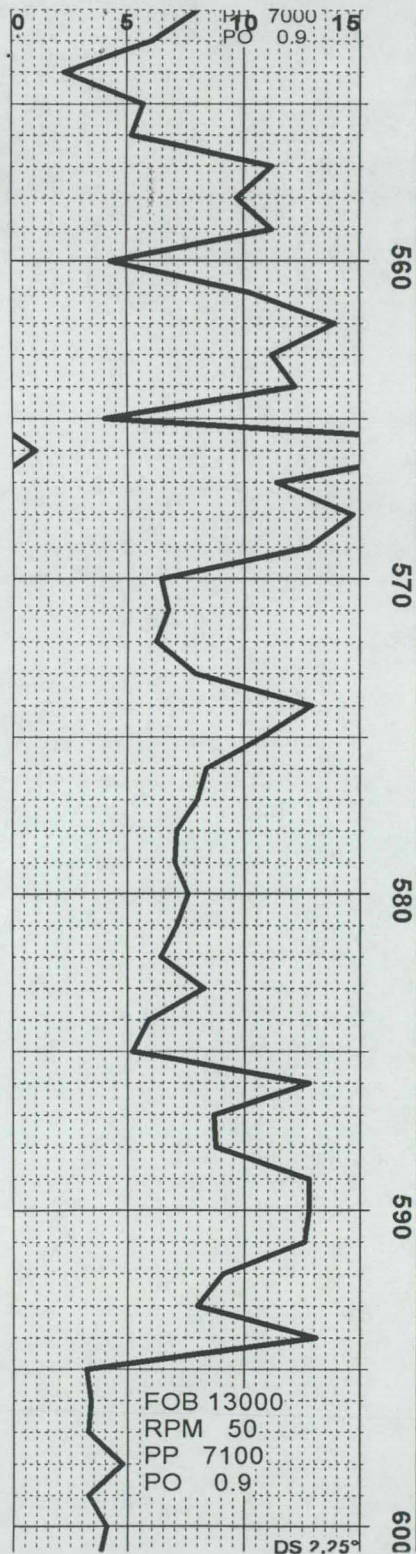
SS: lt to m gy to brn gy, qtzs, f to m gred, sbrdd, fr srtg, v calcs, slly arg, tt, no shows, intbd LS aa, tr Sh, m gy to gn gy, calcs, sdy

SS: v lt gy to lt gy, qtzs, vf to f gred, tr m grs, sbang to sbrdd, fr srtg, calcs, dolc ip, tt, no shows, tr pyr, mnr sdy LS aa

SS: m gy to gy brn, mainly qtzs, vf to m gred, dolc, slly arg ip, mainly tt / tr p por, patchy dead oil stng, fr yel orng cut flor, scat Sh, m gn gy, slty & sdy ip, waxy ip, slly dolc, tr pyr, mnr sdy LS aa

SS: m gy, qtzs, vf to f gred, sbang, fr srtg, calcs to dolc, arg, sils ip, mainly tt, decrg dead oil stng, scat gn gy Sh aa, slty to v slty, tr dk gy Sh, slty to v slty grdg to arg Sltst, tr pyr

SH: dk gy to dk brn gy, slty, sdy grdg to v arg Ss, scat Sltst, m gy, v arg, sdy, tt, no shows, mnr Ss m to dk gy to dk brn gy



shows, mnr Ss, m to ak gy to ak brn gy, qtzs, vf to f gred, sils, pyric ip, arg, str p por, scat dead oil stng, mnr pyrbt

SS: lt gy to lt brn gy, qtzs, vf to m gred, dolc to v dolc grdg to sdy Dol ip, tt, tr spy dead oil stng, scat Sh, m gn gy aa, sdy to v sdy ip, mnr Dol, m gy, vf to f xln, sdy to v sdy ip, tt, no shows

SS: aa, v dolc grdg to sdy DOL

SS: m gy to m brn gy, qtzs, vf to m gred, v dolc, arg, tt, patchy dead oil stng, wk orng cut flr, mnr Dol, m gy, vf to m xln, sdy, tt, spy dead oil stng, scat Sh, m gn gy, micmica, slty, dolc, foss

SS: m to brn gy, qtzs, vf to f gred, sils, v arg, pyric ip, p por, dead oil stng, scat Sh, m to dk gy to gn gy aa, tr Sltst, m to dk gy, dolc, v arg, tt, no shows, tr Dol, lt to m gy, f to m xln, sdy, tt, no shows

SS: m gy to gy brn, vf to f gred, sils, fri ip / scat loose grs, p to fr por, abnt dead oil stng, fr yel orng cut flr only, intbd SH, m to dk gy to gn gy, micmica, slty ip, waxy ip, tr Dol strgs, m gy to gy brn, f to c xln, slly foss / tr Crin rmnts, tt, no shows

SS: m gy, m brn gy ip, qtzs, vf to f gred, sbang, fr srtg, sils to v sils, hd, vits, arg to v arg ip, slly dolc ip, slty, micas ip, tt, no shows, intbd SH m to dk gn gy aa

SS: m gy brn aa, vf to f gred, sils to v sils, hd, tt, patchy dead oil stng, fr yel orng cut flr, scat Sh, m to dk gy to gn gy, waxy ip, pyric, slly dolc ip, slty

SS: m gy brn, qtzs, f gred, sbang, w srt, slly sils, pyric, slly arg / tr gn Sh lams, fri / abnt loose grs, fr to g por, patchy dead oil stng, no dry flr, fr slow streaming yel orng cut flr

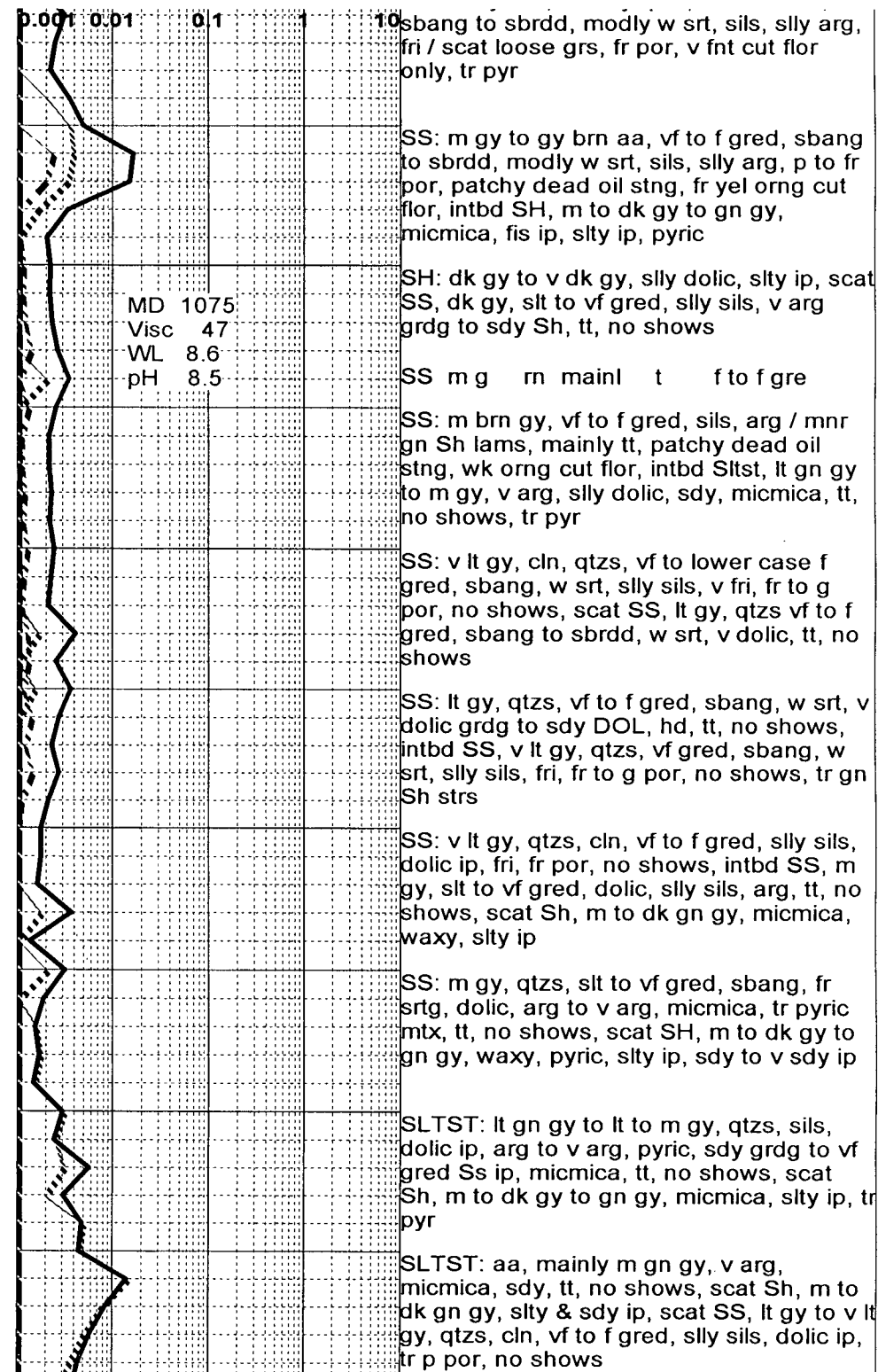
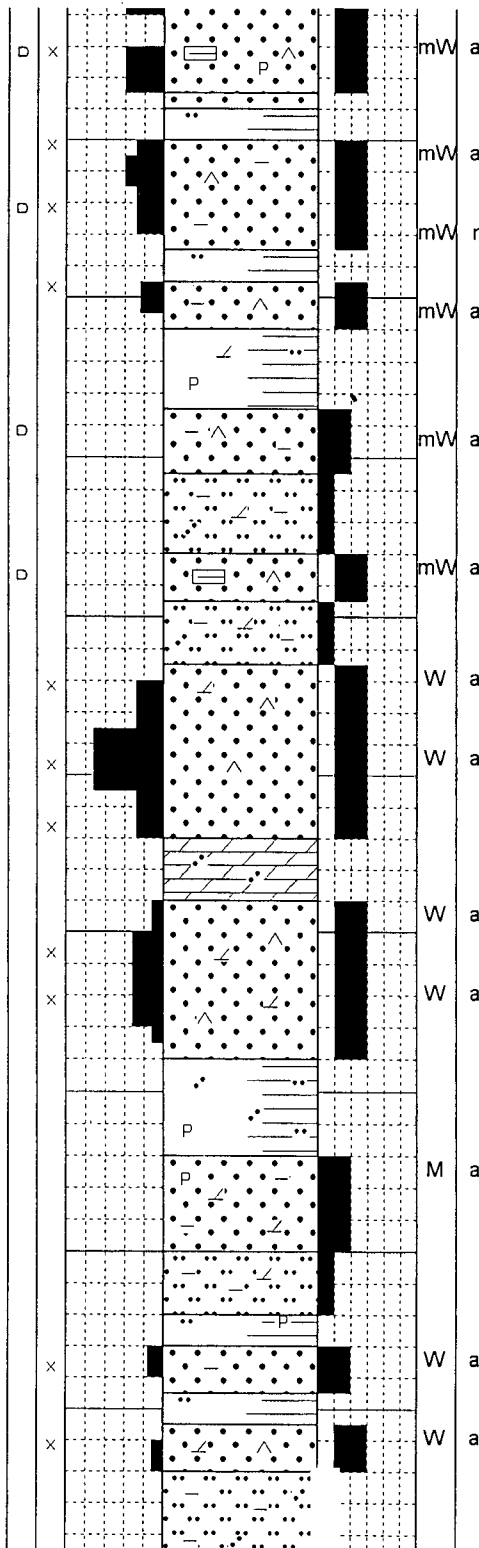
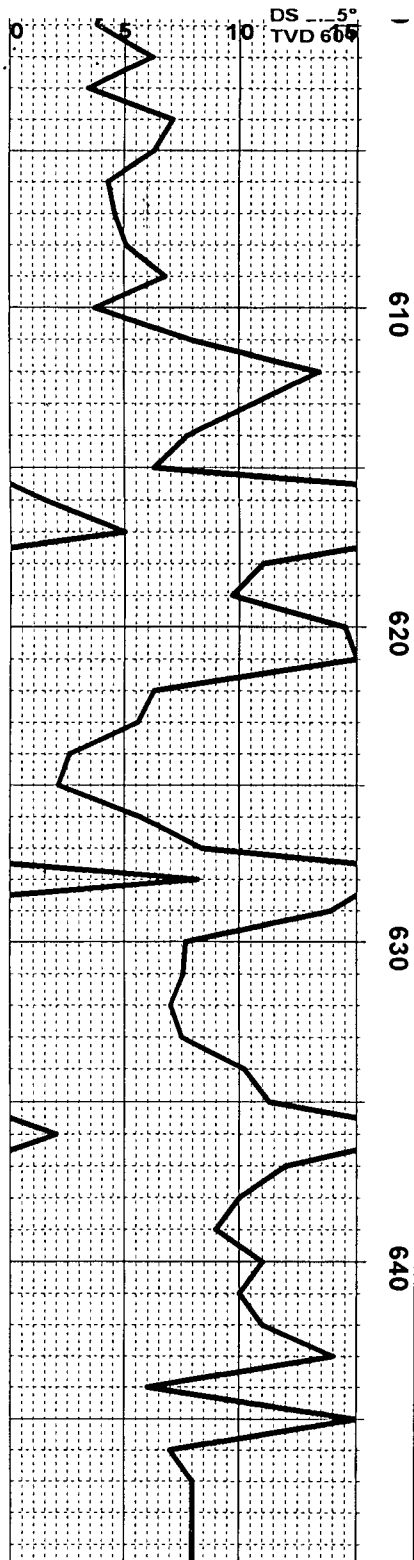
SS: m gy brn, mainly qtzs, vf to f gred,

MD 1045
Visc 47
WL 9.0
pH 9.0

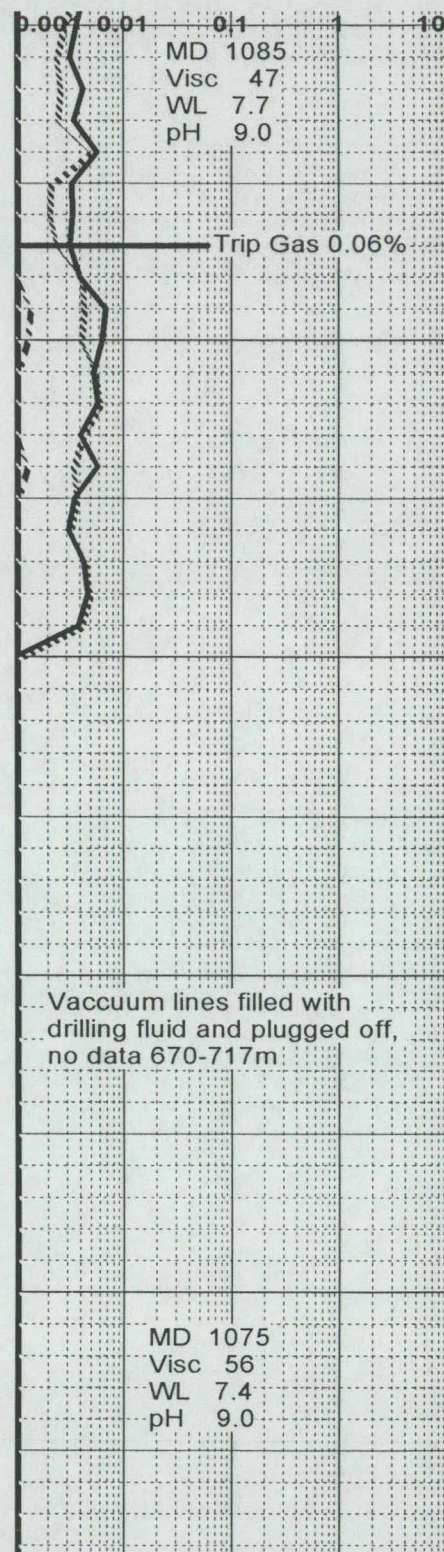
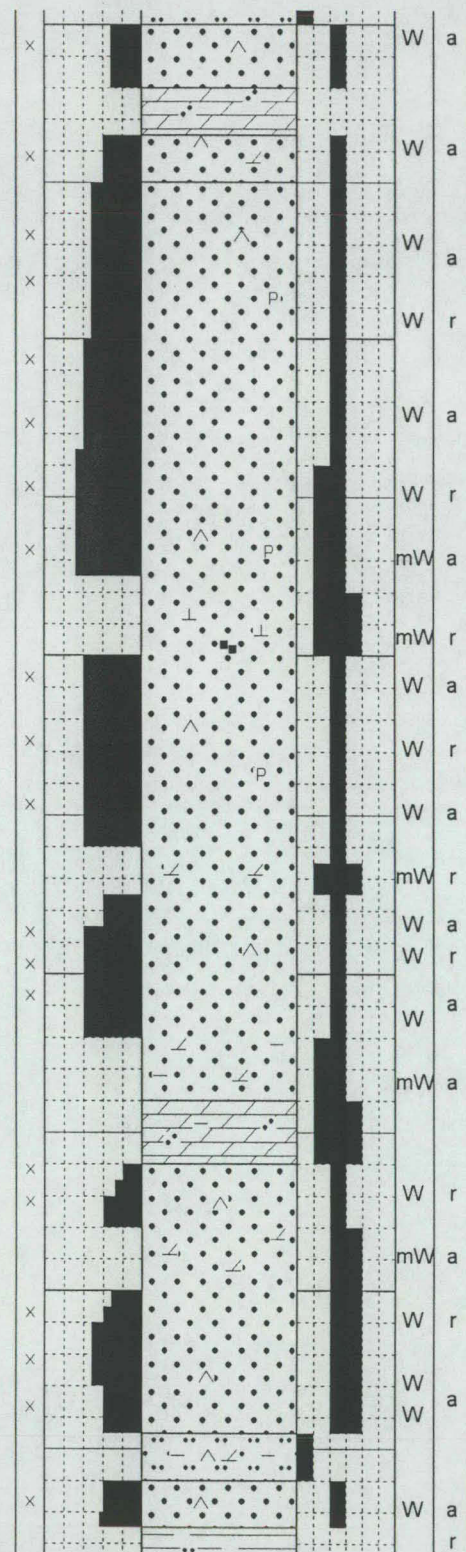
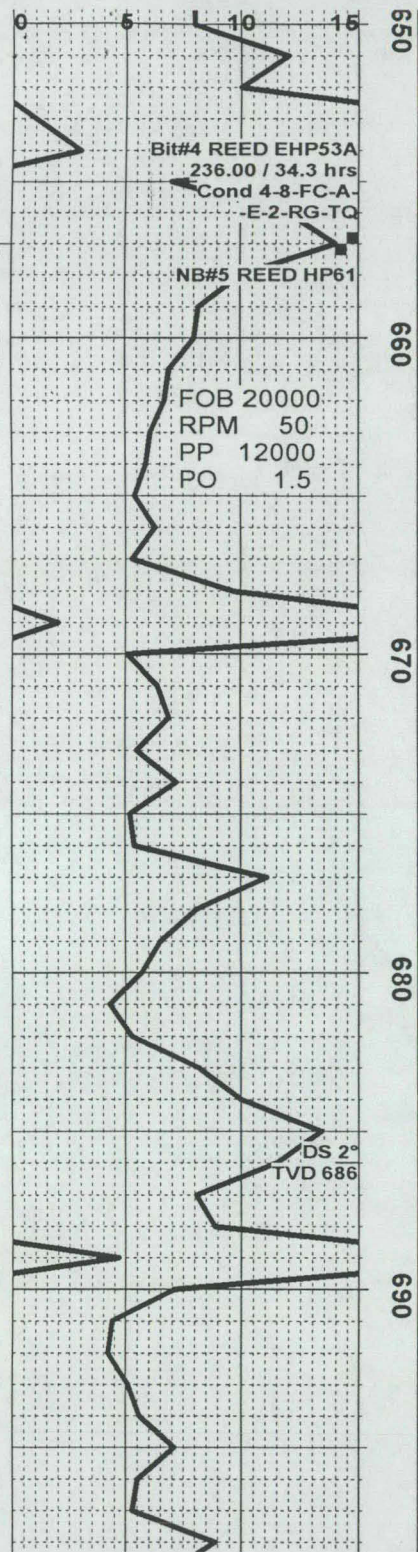
add Gel to Mud System
change over to
Gel Chem Polymer

FOB 13000
RPM 50
PP 7100
PO 0.9

DS 2.25"



Sep 1, 1999



SS: lt gy, qtzs, f gred, sbang to sbrdd, w srt, cln, slly sils, fri, fr to g por, no shows, intbd SS, lt gy, qtzs, f to m gred, sbang to sbrdd, fr srtg, dolc to v dolc grd to sdy Dol ip, pyric, tt, no shows

SS: lt gy, qtzs, f gred, sbang to sbrdd, w srt, slly sils, v fri / abnt loose disaggregated grs, indicated g por, no shows, tr pyr, poor sample

SS: aa, sample is all disaggregated f qtz grs, indicated g por, no shows

SS: lt gy to v lt gy, qtzs, vf to f gred, sbang to sbrdd, fr srtg, sils, slly calcs ip, fri, fr to g por, no shows, scat SS, lt gy, qtzs, vf to m gred, calcs to v calcs, tr carb lams, tt, no shows, tr pyr

SS: lt gy, qtzs, mainly f gred, some vf gred, mnr m grs, sbang to sbrdd, w srt, slly sils, pyric ip, abnt loose disaggregated grs, g por, no shows

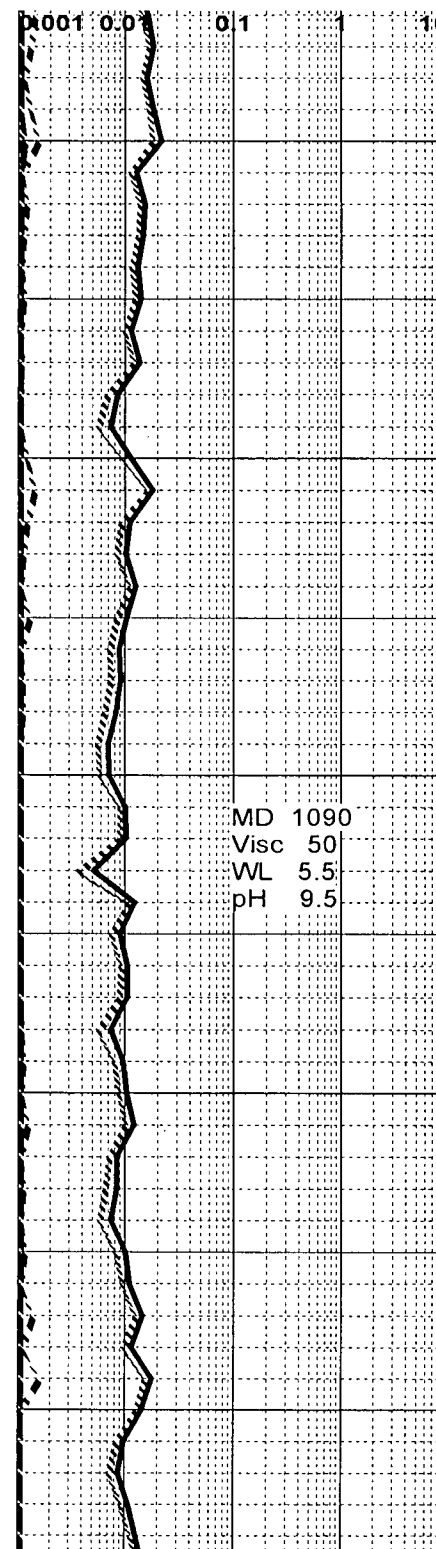
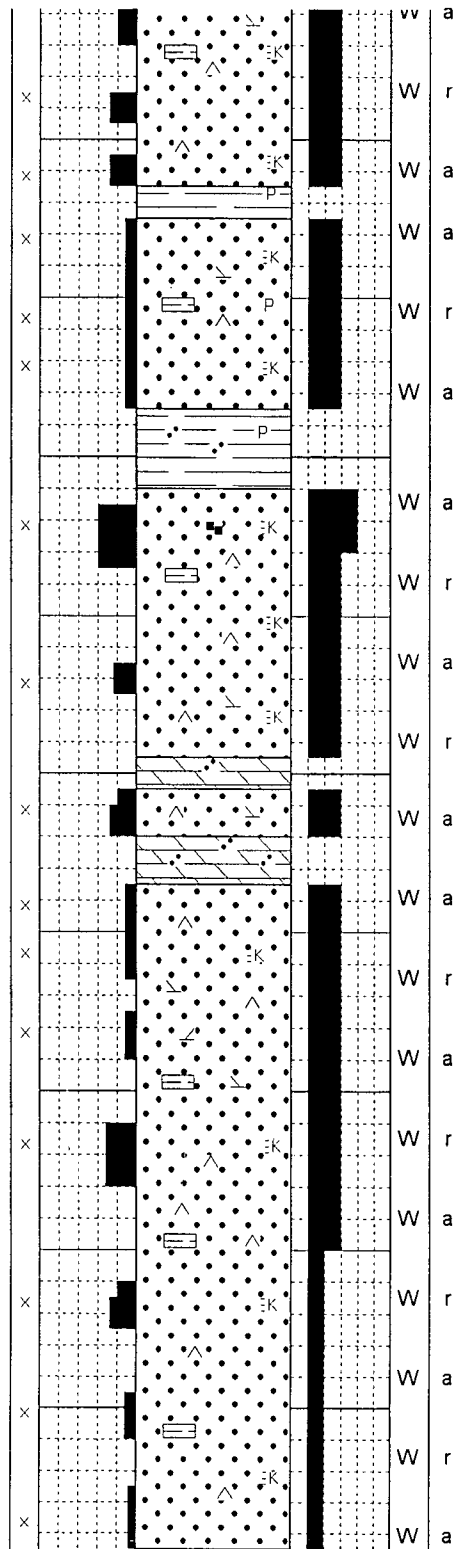
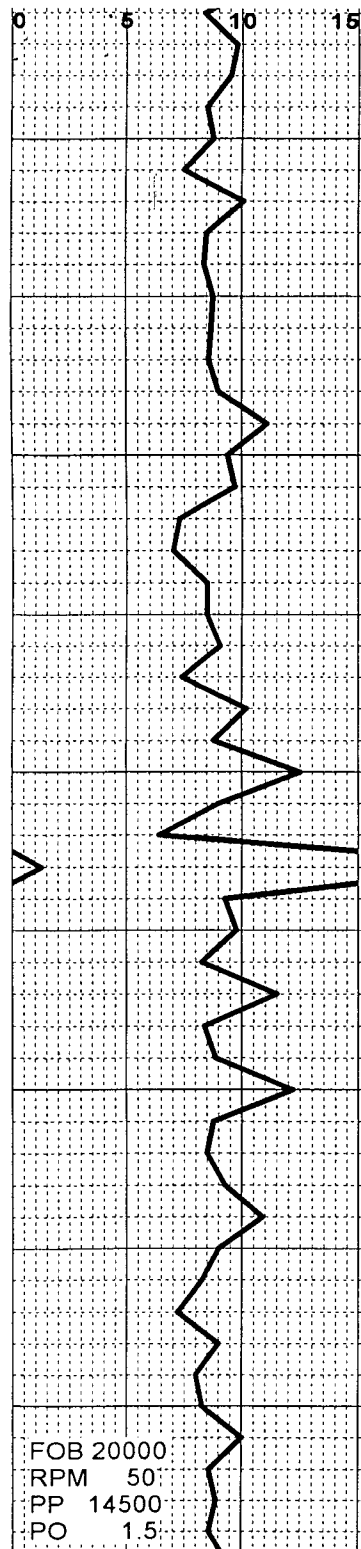
SS: lt gy aa, f gred, sils, v fri, g por, no shows, scat SS, lt to m gy, qtzs, vf to m gred, sbang, fr srtg, v dolc, tt, no shows

SS: m gy, vf to f gred, sbang, fr srtg, v dolc, arg to v arg, pyric, tt, no shows, scat Dol, lt to m gy, vf to m xln, sdy to v sdy ip, slly arg, tt, no shows, scat SS, lt gy aa, f gred, v fri / g por, no shows

SS: v lt gy, qtzs, f gred, sbang to sbrdd, w srt, slly sils, v fri, abnt disaggregated grs, g por, no shows, mnr SS, lt gy, qtzs, f to m gred, v dolc, pyric ip, tt, no shows, tr Sh strs, dk gy, micmica, sdy

SS: lt gy, qtzs, f to m gred, sils, fri, scat loose grs, fr to g por, no shows, mnr Sltst, lt to m gy, gn gy, qtzs, sils, dolc, arg varved, tt, no shows, tr Sh, v dk gy to blk, micmica, slty

SS: lt gy, qtzs, f gred, sbang to sbrdd, w srt, slly sils, pyric / scat loose pyr, fri / abnt loose grs, fr to g por, no shows, intbd SH, v dk gy to blk, slty, micas



sbang to sbrdd, w srt, sils, kaoic, fri ip, mainly tt / str p to fr por, no shows, scat SH, dk gy to blk, micmica, slty ip, slly carb, mnr sid

SS: aa, vf to f gred, sils, slly kaoic, arg ip, fri ip / str p por, no shows, scat SH aa, tr pyr

SS: lt gy aa, qtzs, vf to f gred, slly sils, kaoic, scat blk arg lams, fri / str p to fr por, no shows, decrg dk gy to blk Sh aa, tr pyr

SS: lt gy to v lt gy, qtzs, vf to f gred, sbang to sbrdd, w srt, sils, kaoic, mnr carb incls, tr dk gy arg lams, fri ip, mainly tt / str p to fr por, no shows, tr Sh aa, dk gy to blk, micas, sdy, tr pyr

SS: lt gy aa, vf to f gred, tr m gred, sils, slly sidic ip, kaoic, mainly tt / tr p por, no shows, mnr Fest, m brn to gy brn, sdy / flotg sd grs ip to v sdy grd to sidic Ss ip, tt, no shows

SS: lt gy to v lt gy, lt brn gy ip, qtzs, mainly f gred, sils, dolc ip, kaoic, tr dk gy arg lams, fri ip, str p to fr por, no shows, scat sdy Fest aa, tr Sh str, v dk gy to blk, rare SS, mnr Sh g t f to f gre

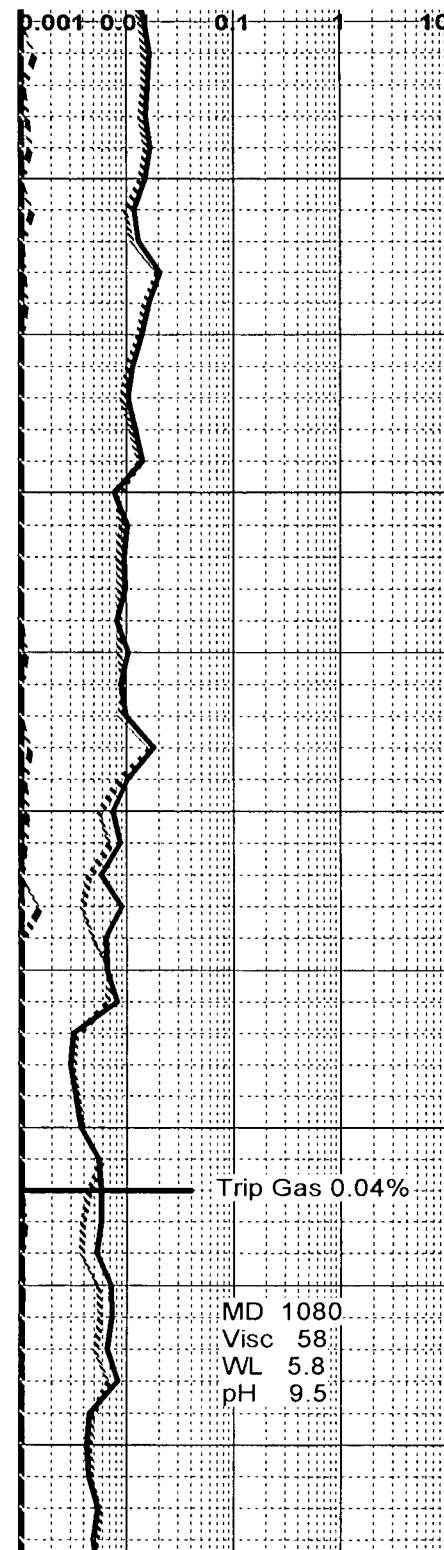
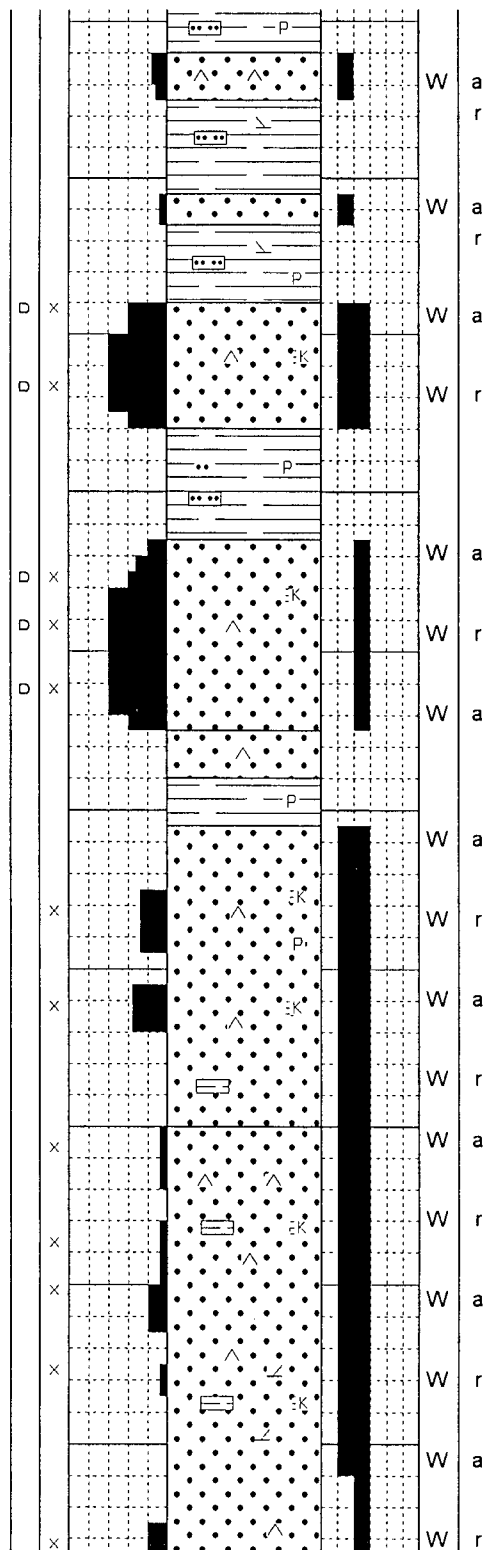
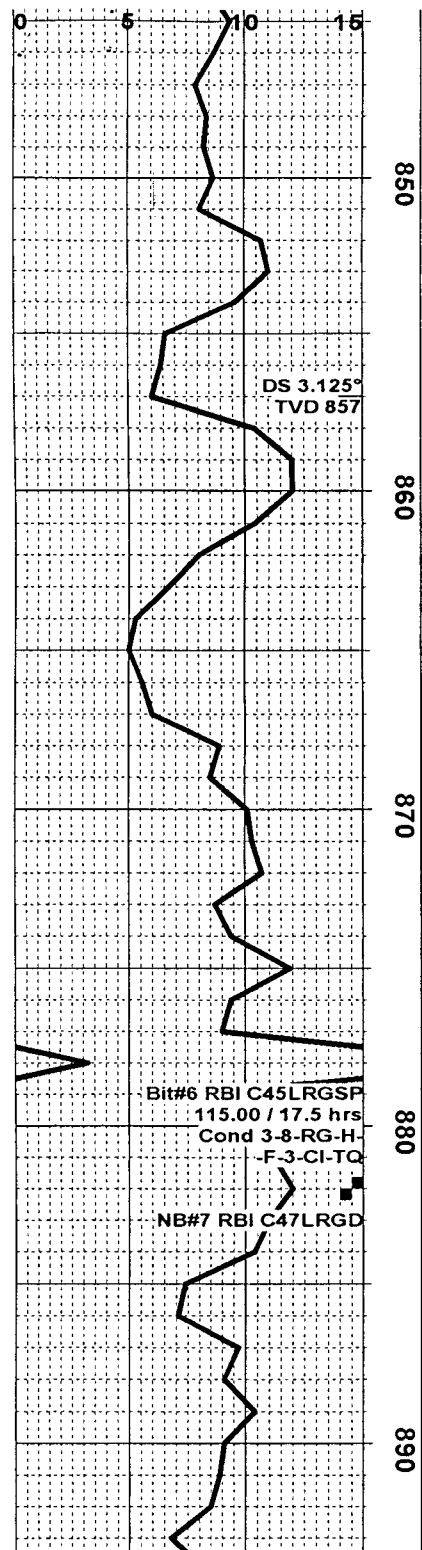
SS: lt gy to lt brn gy, qtzs, vf to f gred, sbang to sbrdd, w srt, sils, kaoic, dolc to slly sidic ip, fri ip, mainly tt / tr p por, no shows, tr Sh str, m to dk gy, gn gy ip, micmica, sdy ip, tr pyr

SS: lt gy brn, vf to f gred, sbang to sbrdd, w srt, slly sils, kaoic, tr carb specks, str p to fr por, no shows, tr Sh str, dk gy to blk, micmica, slty ip / mnr thin Slst lams, tr pyr

SS: lt gy, qtzs, vf gred, sbang to sbrdd, w srt, sils to v sils & hd ip, slly kaoic, scat thin blk Sh lams, tt, no shows

SS: lt gy to v lt gy, qtzs, vf gred aa, sbang to sbrdd, w srt, slly sils to v sils & hd ip, kaoic, fri ip, tr p por, no shows

MD 1090
Visc 50
WL 5.5
pH 9.5



SH: dk gy to v dk gy, micmica, fis, scat
pyr, tr sid, tr gn gy Sh lams, scat Sltst
lams & incl

SS: v lt gy, qtzs, vf to f gred, sbang to
sbrdd, w srt, sils, slly kaoic ip, v fri ip, str
to g por, no dry flor, patchy fr orng cut flor,
mnr pyrbit ip, scat SH aa

SS: lt gy, qtzs, vf to f gred, sbang to
sbrdd, w srt, slly sils, slly kaoic ip, v fri /
scat loose grs, fr to g por, fr orng cut flor,
scat pyrbit

SS: lt brn, qtzs, f gred, sbang to sbrdd, w
srt, slly sils, v fri, abnt loose
disaggregated grs, fr to g por, no shows

SS: lt gy brn aa, lt gy ip, qtzs, f gred, sils
& hd ip, fr to g por, no shows, mnr SH, dk
gy to blk, v dk gy to blk & tr gy gn, pyric

SS: lt gy, qtzs, vf to f gred, sbang to
sbrdd, w srt, sils to v sils & hd ip, kaoic,
slly pyric, tr dk gy Sh lams, fri ip, mainly tt
/ tr p por, no shows

SS: aa, lt gy to v lt gy, qtzs, vf to f gred,
sils, kaoic, fri ip, str p to fr por, no shows

SS: lt gy, qtzs, vf to f gred, sbang to
sbrdd, w srt, sils, v sils & hd ip, kaoic, fri
ip, mainly tt / tr p por, no shows, tr dk gy
Sh lams, micas

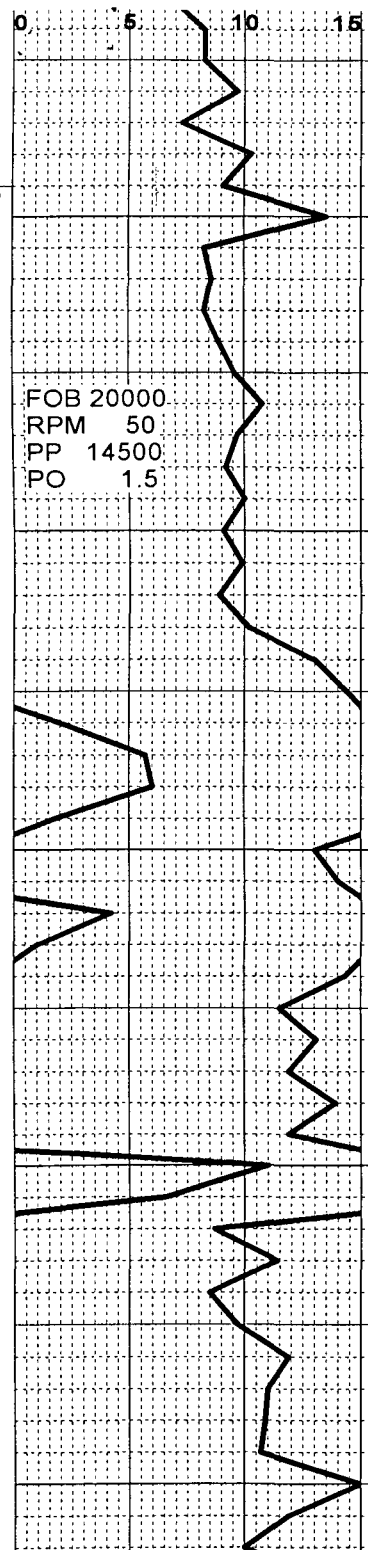
SS: lt gy aa, vf to f gred, sils, kaoic, tt / tr p
por, no shows, tr Ss, lt to m gy, qtzs, vf to
m gred, sbang to sbrdd, fr srtg, sils, dolc,
kaoic, arg ip / tr thin Sh lams, tt, no shows

SS: v lt gy, qtzs, vf gred, sbang, w srt,
sils, kaoic, tt, no shows, tr pyr, mnr dk gy
to blk Sh lams & strgs

Trip Gas 0.04%

MD 1080
Visc 58
WL 5.8
pH 9.5

Sep 3, 1999



FOB 20000
RPM 50
PP 14500
PO 1.5

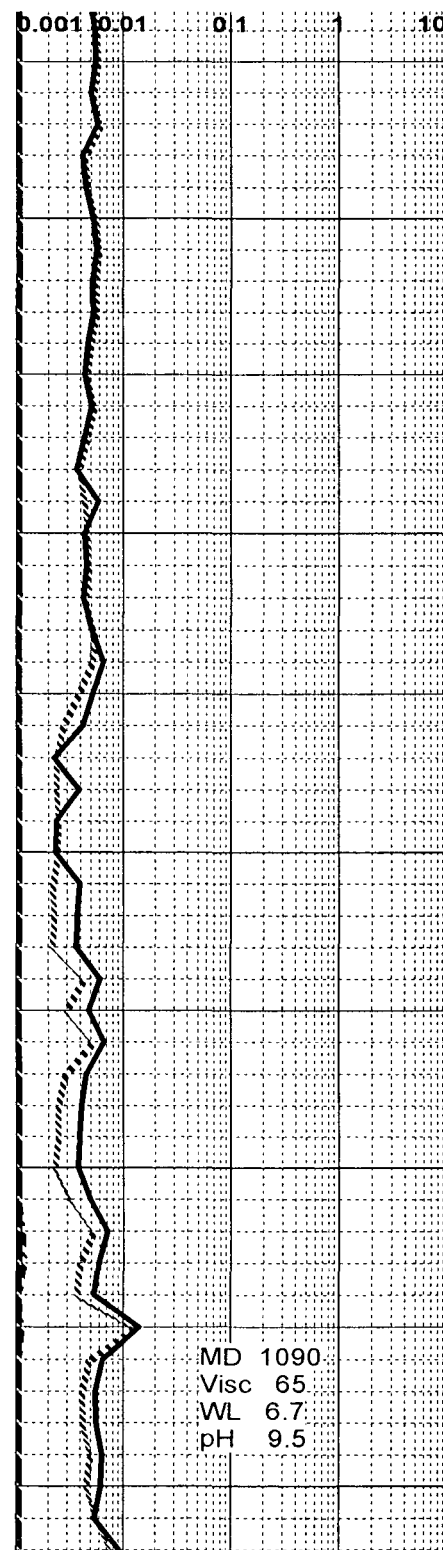
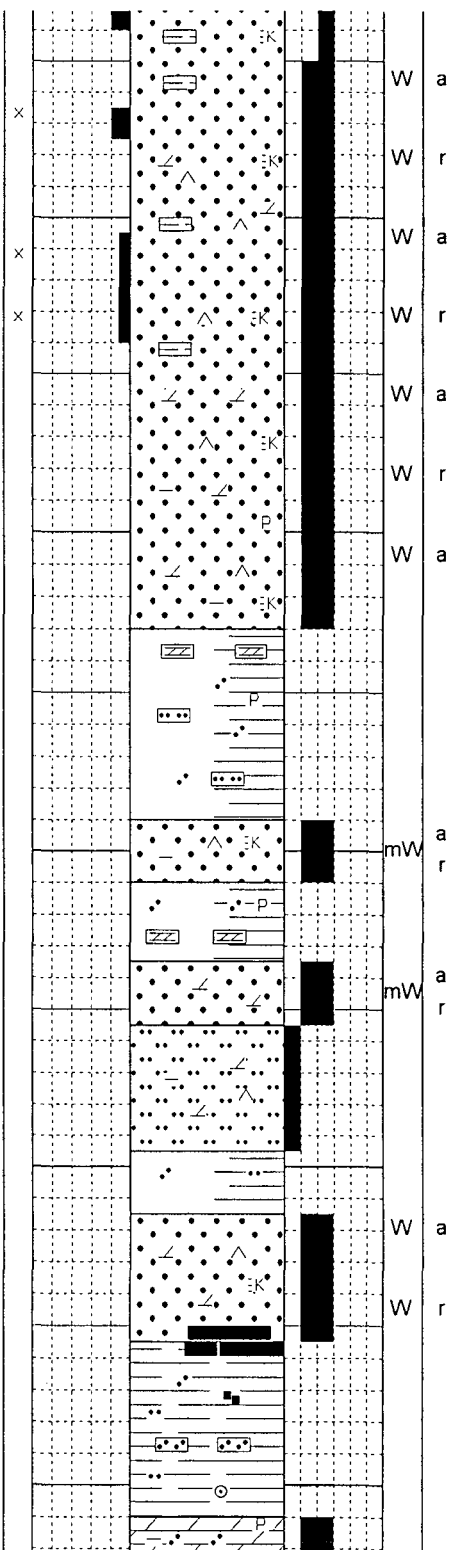
900

910

920

930

940



SS: v lt gy, qtzs, vf to f gred, sbang to sbrdd, w srt, sils, kaoic, fri ip / tr p por, no shows, tr dk gy Sh lams, tr Ss, m gy, vf to f gred, sils, dolc, arg to v arg, slty, tt, no shows

SS: lt gy to v lt gy, qtzs, vf to f gred, sbang to sbrdd, w srt, sils, v sils & hd ip, vit, kaoic, mnr dk gy to blk Sh lams, tr p por, no shows, mnr m gy arg SS aa

SS: aa, lt gy to v lt gy, vf to f gred, sils, kaoic, tt, no shows

SS: m gy, qtzs, vf to f gred, sbang to sbrdd, fr srtg, v dolc, v arg, pyric, tt, no shows, scat SH, m to dk gy to gn gy, v sdy, pyric, mnr Dol, m brn gy, micxl to vf xln, sdy, arg / scat m gn gy arg lams, foss, tr Crins, tt, no shows

SH: m to dk gy gn, sdy to v sdy, waxy ip, v dk gy to blk ip, fis, micas, slty ip / tr sils Sltst lams, scat SS, lt to m gy, qtzs, vf to f gred, sbang to sbrdd, sils, kaoic, arg / scat dk gy Sh lams ip, tt, no shows

SH: m to dk gn gy, micmica, sdy to v sdy ip, intbd SS aa, m gy, vf to f gred, v dolc, v arg, tt, no shows, tr Dol, m gy aa, v sdy grdg to dolc Ss, tt, no shows, tr pyr

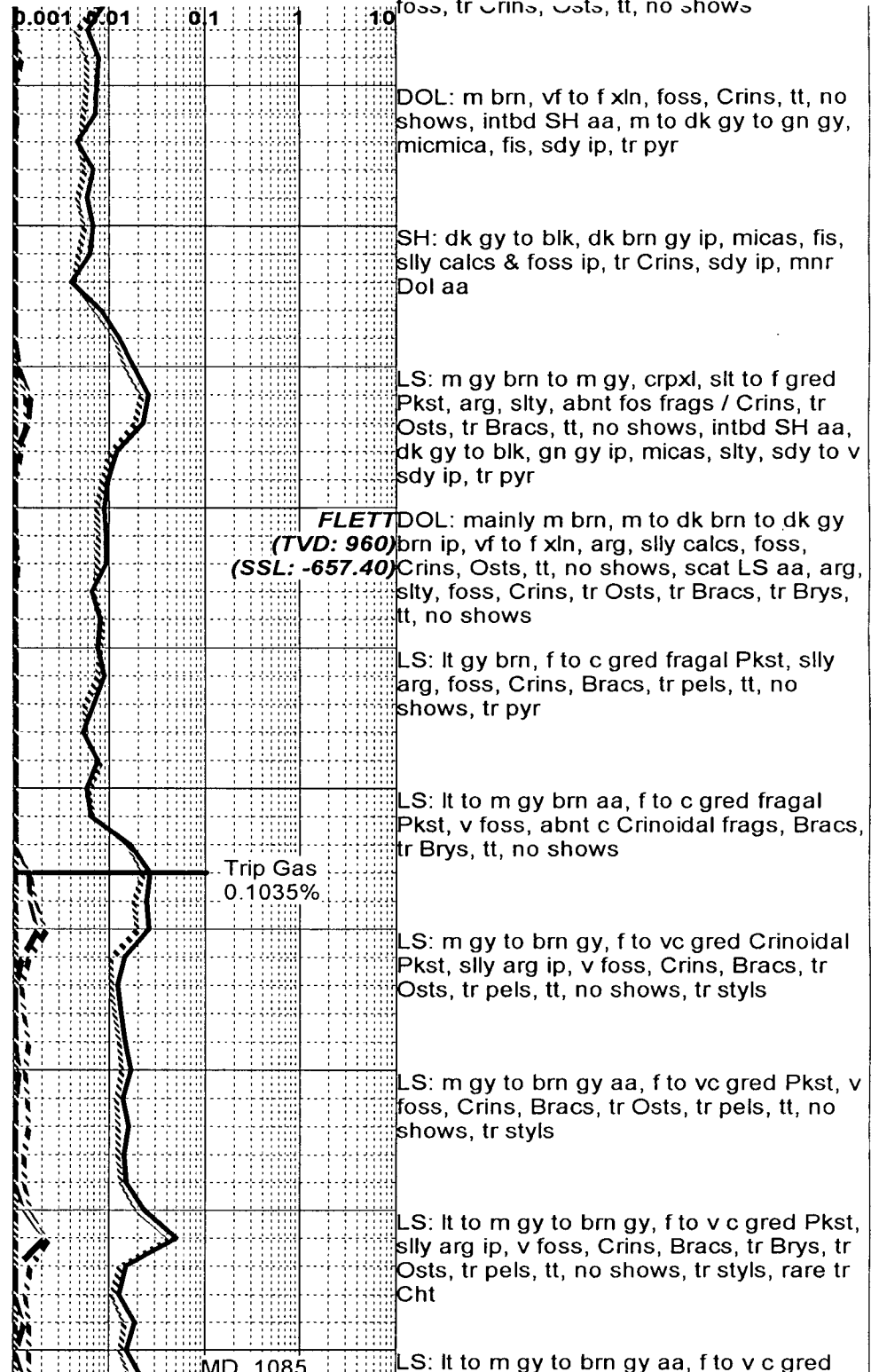
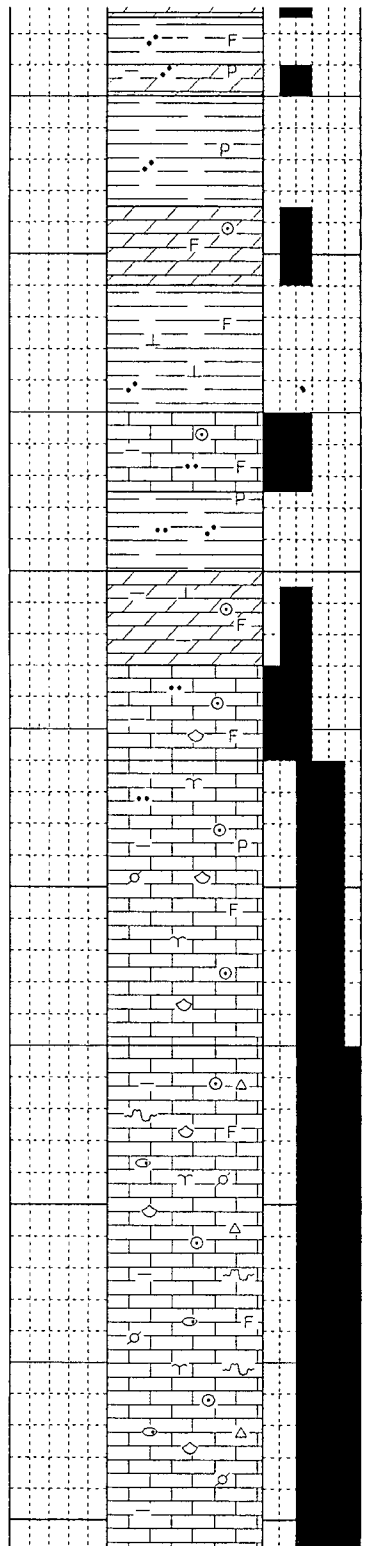
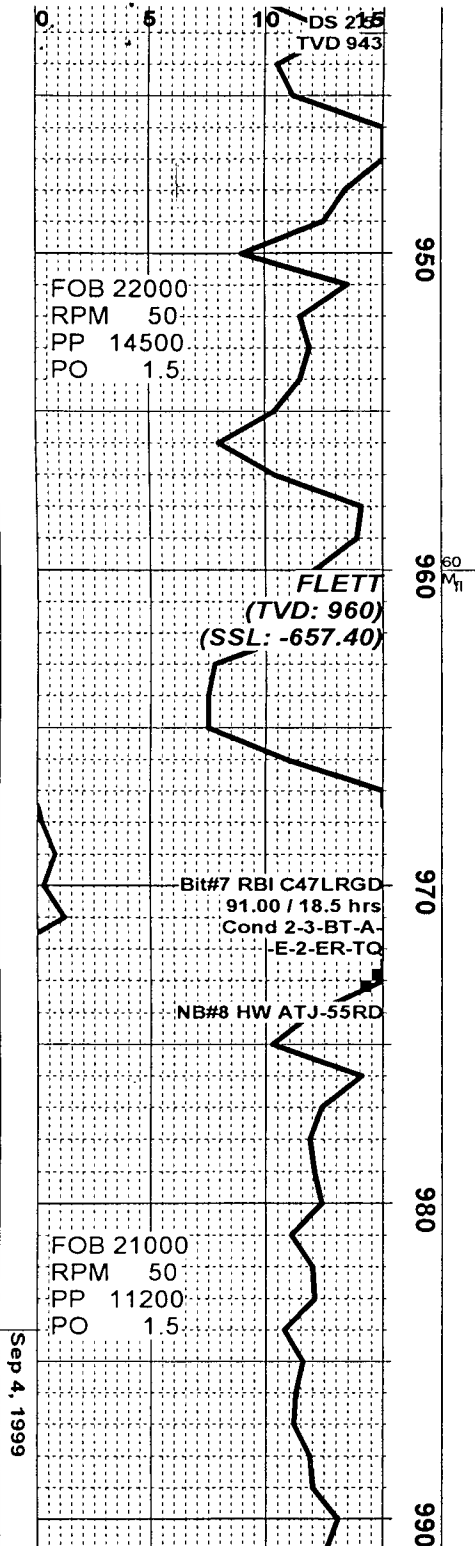
SS: lt gy, qtzs, vf to f gred, sbang to sbrdd, w srt, sils, kaoic, tt, no shows, scat Sltst, m gy to m gn gy, qtzs, sils, dolc, v arg, hd, tt, no shows, scat SH, m to dk gn gy, micmica, sdy

SS: lt to gy, qtzs, vf to f gred, sbang to sbrdd, w srt, sils, dolc ip, kaoic, tt, no shows, tr Sltst, m gy to m gn gy aa, v arg, hd, tt, no shows, scat SH, m to dk gn gy, micmica, sdy, carb / thin carb & coaly lams, tr sid, tr pyr

SH: dk gy to v dk gy to blk, m gy gn ip, micmica, sdy / scat flotg sdy grs, slty ip, carb lams, scat Dol, m brn, vf to f xln, sdy, arg, v pyric, tt, no shows, scat Ss aa

SH: dk gy to blk, gy gn ip aa, sdy, scat DOL aa, m brn to gy brn, vf to f xln, sdy, foss, tr Crins, tt, no shows

MD 1090
Visc 65
WL 6.7
pH 9.5



foss, tr Crins, Osts, tt, no shows

DOL: m brn, vf to f xln, foss, Crins, tt, no shows, intbd SH aa, m to dk gy to gn gy, micmica, fis, sdy ip, tr pyr

SH: dk gy to blk, dk brn gy ip, micas, fis, sly calcs & foss ip, tr Crins, sdy ip, mnr Dol aa

LS: m gy brn to m gy, crpxl, slt to f gred Pkst, arg, slty, abnt fos frags / Crins, tr Osts, tr Bracs, tt, no shows, intbd SH aa, dk gy to blk, gn gy ip, micas, slty, sdy to v sdy ip, tr pyr

FLETT (TVD: 960) (SSL: -657.40)
DOL: mainly m brn, m to dk brn to dk gy brn ip, vf to f xln, arg, sly calcs, foss, Crins, Osts, tt, no shows, scat LS aa, arg, slty, foss, Crins, tr Osts, tr Bracs, tr Brys, tt, no shows

LS: lt gy brn, f to c gred fragal Pkst, sly arg, foss, Crins, Bracs, tr pels, tt, no shows, tr pyr

LS: lt to m gy brn aa, f to c gred fragal Pkst, v foss, abnt c Crinoidal frags, Bracs, tr Brys, tt, no shows

Trip Gas
0.1035%

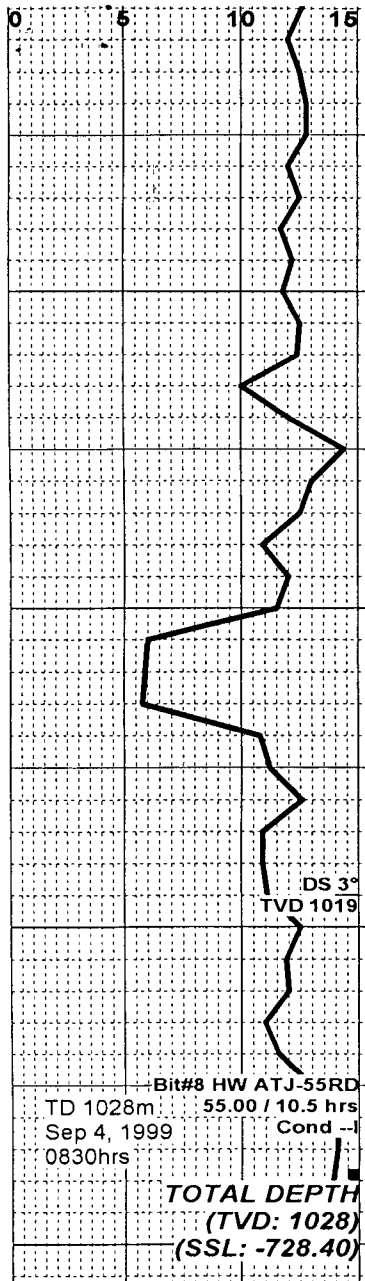
LS: m gy to brn gy, f to vc gred Crinoidal Pkst, sly arg ip, v foss, Crins, Bracs, tr Osts, tr pels, tt, no shows, tr styls

LS: m gy to brn gy aa, f to vc gred Pkst, v foss, Crins, Bracs, tr Osts, tr pels, tt, no shows, tr styls

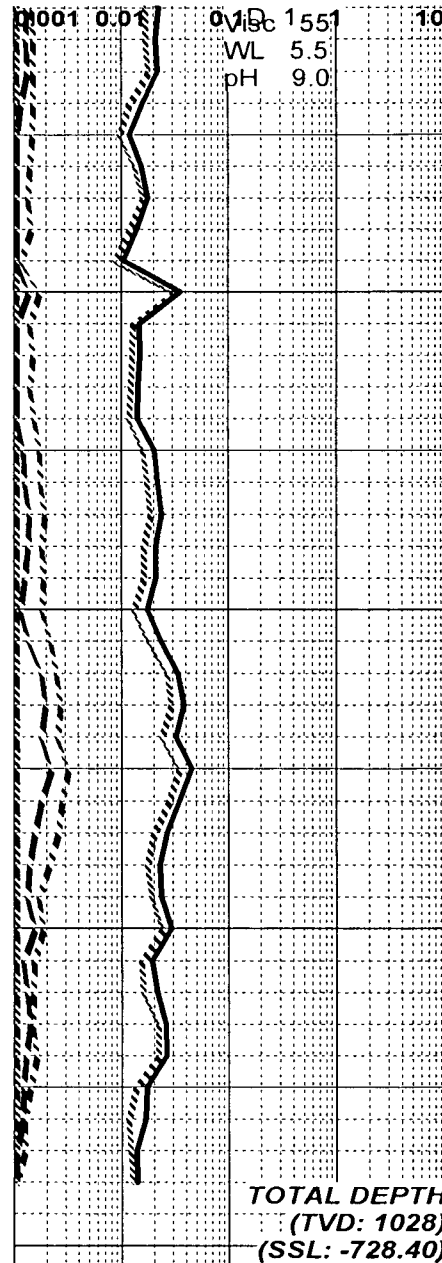
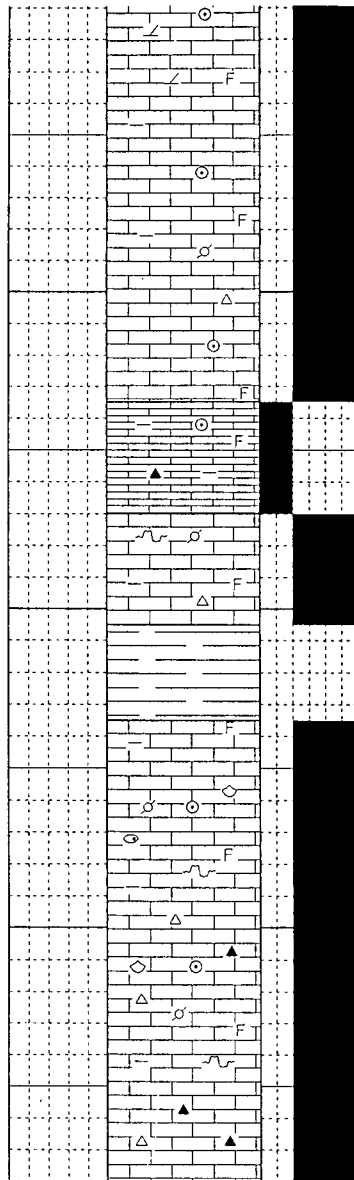
LS: lt to m gy to brn gy, f to v c gred Pkst, sly arg ip, v foss, Crins, Bracs, tr Brys, tr Osts, tr pels, tt, no shows, tr styls, rare tr Cht

MD 1085

LS: lt to m gy to brn gy aa, f to v c gred



28



Visc 1551
WL 5.5
pH 9.0

Pkst, sily arg, v foss, tt, no shows, scat
LS, dk gy brn, micxl, dolc, foss, tt, no
shows, scat Cht, lt to m gy, trnsl ip

LS: lt gy to lt brn gy, f to v c gred Pkst, sily
arg ip, v foss, Crins, tr pels, tt, no shows,
tr styls, scat Cht frags

LS: lt gy to lt brn gy aa, Pkst, tt, no shows,
scat LS, dk gy brn, micxl to vf xln, Wkest,
v arg, sily dolc ip, foss, Crins, tt, no
shows, tr Cht

LS: lt gy to lt brn gy, f to v c gred Pkst,
chky ip, sily arg ip, v foss, Crins, Bracs, tr
pels, tt, no shows, tr styls, scat LS, dk gy
brn, micxl to vf xln, Wkest, v arg grd to
Mrst ip, foss, Crins, tt, no shows, tr Cht

LS: lt gy to lt to m brn gy, f to v c gred
Pkst, chky ip, sily arg ip, v foss, Crins, tr
pels, tt, no shows, tr styls, abnt Sh, dk gy,
micmica, fis, sloughing?

LS: lt gy to lt brn gy, f to v c gred Pkst,
chky ip, sily arg ip, v foss, abnt Crins,
Bracs, tr Osts, tr pels, tt, no shows, tr
styls, scat Cht frags, lt to dk gy

LS: aa, lt gy to lt to m brn gy, dk gy brn ip,
f to v c gred fragl Pkst, sily arg ip, v foss,
Crins, Bracs, tr pels, tt, no shows, tr styls,
tr pyr, incrg Cht, lt to dk gy, m to dk gy brn
ip, trnsl ip, hd